

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG _____ ELECTRIC LOGS _____ ☒ X WATER SANDS _____ LOCATION INSPECTED _____ SUB. REPORT/abd. _____

900927 Oper. from Mepne to Pioneer to Noo75 eff. 8-1-90.

* Commenced Injection Effective 5-891

DATE FILED

2-5-85

LAND: FEE & PATENTED

STATE LEASE NO.

PUBLIC LEASE NO.

INDIAN NOO-C-14-5118

DRILLING APPROVED:

2-5-85 - OIL

SPUDDED IN:

7-2-85

COMPLETED: 8-31-85 TA 716-81

PUT TO PRODUCING:

* 7-1-89 WDW

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

51679-5770

* 2838-2978 (Dechelly Sandstone)

TOTAL DEPTH:

5957'

WELL ELEVATION:

DATE ABANDONED:

FIELD:

ROCKWELL FLAT

UNIT:

COUNTY:

SAN JUAN

WELL NO.

SENTINEL PEAK #27-23

API #43-037-31144

LOCATION

2024' FSL

FT. FROM (N) (S) LINE.

2134' FWL

FT. FROM (E) (W) LINE.

NE SW

1/4 - 1/4 SEC.

27

TWP.

RGE

SEC.

OPERATOR

Giant Explor. & Prod. Co.

TWP.

RGE

SEC.

OPERATOR

QUATERNARY	Star Point	Chinle	1618'	Molas
Alluvium	Wahweap	Shinarump		Manning Canyon
Lake beds	Masuk	Moenkopi		Mississippian
Pleistocene	Colorado	Sinbad		Humbug
Lake beds	Sego	PERMIAN		Brazer
TERTIARY	Buck Tongue	Kaibab		Pilot Shale
Pliocene	Castlegate	Coconino		Madison
Salt Lake	Mancos	Cutler		Leadville
Oligocene	Upper	Hoskinnini		Redwall
Norwood	Middle	DeChelly	2848'	DEVONIAN
Eocene	Lower	White Rim		Upper
Duchesne River	Emery	Organ Rock	2993'	Middle
Uinta	Blue Gate	Cedar Mesa		Lower
Bridger	Ferron	Halgaite Tongue		Ouray
Green River	Frontier	Phosphoria		Elbert
	Dakota	Park City		McCracken
	Burro Canyon	Rico (Goodridge)		Aneth
	Cedar Mountain	Supai		Simonson Dolomite
	Buckhorn	Wolfcamp		Sevy Dolomite
	JURASSIC	CARBON I FEROUS		North Point
Wasatch	Morrison	Pennsylvanian		SILURIAN
Stone Cabin	Salt Wash	Oquirrh		Laketown Dolomite
Colton	San Rafael Gr.	Weber		ORDOVICIAN
Flagstaff	Summerville	Morgan		Eureka Quartzite
North Horn	Bluff Sandstone	Hermosa	4742'	Pogonip Limestone
Almy	Curtis	U-Ismay	5642'	CAMBRIAN
Paleocene	Entrada	XXXX Hozen Weep	5722'	Lynch
Current Creek	Moab Tongue	Ismay - L	5730'	Bowman
North Horn	Carmel	XXXX Gothic Shale	5795'	peats
CRETACEOUS	Glen Canyon Gr.	XXXX Desert Creek	5838'	Ophir
Montana	Navajo	Barker Creek		Tintic
Mesaverde	Kayenta	Chimney Rock	5925'	PRE - CAMBRIAN
Price River	Wingate	Cane Creek		
Blackhawk	TRIASSIC			

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1A. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

B. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

SUPERIOR OIL COMPANY

3. ADDRESS OF OPERATOR

P. O. DRAWER 'G', CORTEZ, COLORADO 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

2024' FSL, 2123' FWL NESW Sec. 27

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

10.5 miles southeast of Aneth, Utah

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

2024'

16. NO. OF ACRES IN LEASE

546.4

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

1469'

19. PROPOSED DEPTH

5980'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

Ungraded Ground Level: 4917.5'

22. APPROX. DATE WORK WILL START*

March 1985

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	54.5# K-55	120'	177 cu ft cement to surface
12-1/4"	9-5/8"	36# K-55	1620'	1027 cu ft cement to surface
8-3/4"	7"	23# K-55	5980'	590 cu ft cement or sufficient to cover zones of interest.

Superior Oil Company proposes to drill the subject well to a total depth of 5980' to test the Ismay and Desert Creek formations. If productive, we will run casing and complete. If dry, we will plug and abandon as per BLM, BIA and State of Utah regulations.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 12/5/85

BY: John S. Andres

RECEIVED
JAN 30 1985

DIVISION OF
OIL, GAS, AND MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone, and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

James S. Andres

TITLE

Engineer

DATE

1-24-85

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

Revised Location Jan. 14, 1985

21 22
28 27

22 27
8 17

Well 27-23 is located in the NE $\frac{1}{4}$ SW $\frac{1}{4}$
of Section 27, T.41S., R.26E., SLM,
San Juan County, Utah

SECTION 27,
T.41S., R.26E., SLM,
San Juan County, Utah

2123' Well 27-23
2024'

Utah
Colorado

Scale: 1" = 1000'

28 27
33 34

27 33

17
20

Roadway-880' long
at 1% grade

Ref. elev.
4914.3

Power Line:

Flow Line:

Reserve

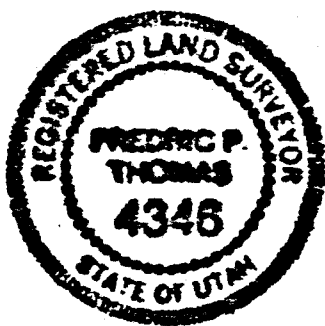
N.47°36'06"W
205.10'

Well 27-23
Elev. 4917.5

S.30°43'40"E.-
203.87'

Laydown
S.39°11'26"E.

Ref. elev.4926.4



Vegetation: Scattered grass.
Soil: Clayey sand.

N

Scale: 1" = 100'

KNOW ALL MEN BY THESE PRESENTS;

THAT I, FREDRIC P. THOMAS

do hereby certify that I prepared this plat from an
actual and accurate survey of the land and that the
same is true and correct to the best of my knowledge
and belief.

Fredric P. Thomas

FREDRIC P. THOMAS
Reg. L.S. and P.E.
Colo. Reg. No. 6728

Bearing by
Solar
observation

Plat No. 5

Utah Reg. No. 4346

THOMAS Engineering Inc.

215 N. Linden
Cortez, Colorado
565-4496

SUPPLEMENT TO FORM 3160-3

WELL: Sentinel Peak #27-23

ELEVATION: Ungraded Ground Level: 4917.5'

SURFACE FORMATION: Dakota

ESTIMATED FORMATION TOPS:	<u>Formation</u>	<u>Top</u>
	Chinle	1570'
	DeChelly	2917'
	Organ Rock	3010'
	Hermosa	4735'
	Ismay	5645'
	Lower Ismay	5728'
	Gothic Shale	5788'
	Desert Creek	5833'
	Chimney Rock Shale	5928'
	TD	5980'

WATER BEARING FORMATION: Fresh water is expected to be encountered intermittently from 120' to 1570'.

HYDROCARBON BEARING FORMATION: Oil & gas could be encountered in the Ismay and Desert Creek from 5645' to 5928'.

MUD PROGRAM:

Surface to 100' - spud mud.

100' to 1570' - fresh water.

1570' to 2850' - fresh water/gel/polymer.

2850' to 5550' - lignosulfonate mud system.

5550' to TD - lignosulfonate mud system. Water loss controlled to 15 cc or less and weighted with barite as necessary.

CASING PROGRAM:	<u>Depth</u>	<u>Hole Size</u>	<u>O. D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>
Conductor	0-120'	17-1/2"	13-3/8"	54.5#	K-55	ST&C
Surface	0-1620'	12-1/4"	9-5/8"	36#	K-55	ST&C
Production	0-5980'	8-3/4"	7"	23#	K-55	ST&C

ALL CASING WILL BE NEW.

(2)

CEMENT PROGRAM:

Conductor - cement to surface w/ 150 sx (177 ft³)
Class 'B' + 2% CaCl.

Surface - cement to surface w/ 430 sx (791 ft³)
Lite + 10#/sk Gilsonite + .4% LoDense +
5#/sk LCM & 200 sx (236 ft³) Class 'B'
+2% CaCl.

Production - 500 sx (590 ft³) Class 'B' + 1.7%
D-29 (antimigration additive) + .3%
R-5 (retarder). Est TOC: 4600'.

PRESSURE CONTROLS:

Blowout preventer equipment will be 10" Series
900 (3000 psig working pressure) with blind rams
and drill pipe rams hydraulically and manually
controlled. The BOP's will be tested to 1500 psig
and actuated daily to insure proper functioning.
The schematic of the pressure control equipment can
be seen on the attached diagram.

LOGGING PROGRAM:

DIL/SFL: TD to 1620'.

CNL/FDC: TD to 4700'.

BHC-SONIC: TD to 1620'.

HIGH PRESSURE AND/OR H₂S GAS: High pressure gas or gas containing detectable
H₂S are not anticipated while drilling
this well.

DRILL STEM TESTS:

(1) Upper Ismay: 5635-5720'.

(2) Lower Ismay: 5725-5740'.

CORING:

None anticipated at this time.

ANTICIPATED STARTING DATE: March 1985

SUPERIOR OIL

January 17, 1985

Mr. Matt N. Millenbach
Area Manager
U. S. Department of The Interior
Bureau of Land Management
Caller Service 4104
Farmington, New Mexico 87499

Re: Surface Use Development Plan
Proposed Well Sentinel Peak #27-23
2024' FSL, 2123' FWL
NESW Section 27, T41S, R26E
San Juan County, Utah
Navajo Lease: N00-C-14-5118

Sir:

We submit this Surface Use Development Plan with the APD, Form 3160-3, for the above referenced well and the plan is as follows:

1. To reach the location start in front of the Thiftway Store at Aneth, Utah and go southeast 8 miles on Utah Highway 262; then turn left (north) onto County Road 459 and go 1.4 miles to an intersection of County Road 405 and an unnumbered road; then turn left (north) on a dirt road and go 1 mile to the access road to the well (See plat #3).
2. An access road of approximately 880' will be constructed from the location northwest to the existing road.
3. Superior does have a current inventory of all existing wells within a one mile radius of the proposed well. Attached is Plat #5 showing existing wells in the area as our information shows it.
4. Superior has existing production facilities at Sentinel Peak #27-23 well location, SW-1/4NE-1/4 of Section 27, and a production flowline, approximately 1870' in length, will be laid from this well to the above production facility. (See Plat #4). An electrical powerline approximately 1320' in length will be constructed to the north from the well to the proposed power system (See Plat #7).
5. Location and type of water supply will be from Superior's McElmo Creek Unit fresh water supply wells near the San Juan River (SW-1/2 Sec. 17, T41S, R25E SLM). Water will be trucked to the location over existing roads and access road to be built.

6. All construction material necessary to build the drilling pad will be obtained from the location. Graveling of the access and/or existing road is not deemed necessary for the drilling of this well. The northerly drainage will be diverted around the south and east of the location. The top soil will be stockpiled southeast of the reserve pits and northeast of the location.
7. Methods of handling waste disposals are as follows:
 - A. A trash or burn pit, an earthen pit 6 to 8 feet deep with steep sides and mesh wire fencing, will be constructed in the northwest corner of the reserve mud pits. (See Plat #6).
 - B. The reserve mud pits will be located on northeast side of the location for the drilling mud, cuttings, and fluids. The reserve pit will be fenced on three sides away from the pad while drilling and the fourth side will be fenced as soon as the drilling rig moves out. When drilling operations are complete, the reserve pit will be allowed to dry naturally and then be backfilled, leveled and contoured to the original landscape as much as possible. (See Plats 6,7 and 8).
 - C. Chemical toilets, meeting OSHA approval, will be provided and maintained during drilling operations.
8. The support facilities consisting of two small mobile homes for use by supervisory personnel of Superior and the drilling contractor will be parked on the southwest edge of location as shown on the attached Plat #6 during drilling operations. No additional or other ancillary facilities is anticipated at this time.
9. A plat of the proposed drill pad and its location relative to topographic features is attached (see Plat #2). Diagrams showing cross section of cuts and fills, site organization, and drilling rig orientation are contained in Plats #6, #7, #8 and #9.
10. Upon completion of the drilling operations and if the well is deemed dry, and/or not usable for water injection purposes, then the location and the access road will be cleaned and restored to the original topographical contours as much as possible and reseeded in accordance with the requirements and stipulations of the Bureau of Indian Affairs Shiprock Agency.
11. The land at the location and all the land crossed by the access road to be constructed is Navajo Tribal Lands and managed by the Bureau of Indian Affairs.

12. Any additional questions, requests and/or unanticipated developments will be channeled through the appropriate individuals of the BLM & BIA. Superior Oil has not selected a drilling contractor at this time. All dirt contractors bidding for the location construction were in attendance during the pre-drill site inspection.
13. As for the contacts with Superior Oil, the following are company and contract representatives:

Permitting - C. J. Benally
Construction - C. D. Likes
Drilling - J. E. Gagneaux

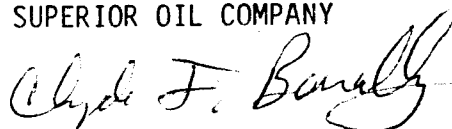
Mailing Address: P. O. Drawer 'G'
Cortez, Colorado 81321
Telephone: 303-565-3733 (24 hrs)

Dirt Contractor - Not yet determined.

Drilling Contractor - Not yet determined.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Superior Oil Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. The statement is subject to the provision of 18 U.S.C. 1001 for the filing of a false statement.

SUPERIOR OIL COMPANY



C. J. Benally
Environmental Coordinator

CJB/1h

SUPERIOR OIL

December 18, 1984

Mr. Matt N. Millenbach
Area Manager
U. S. Department of The Interior
Bureau of Land Management
Caller Service 4104
Farmington, New Mexico 87499

Re: Surface Use Development Plan ²⁷⁻²³
Proposed Well ^{Sentinel Peak} McElmo Creek Unit #R 10
2024 ^{FX} 2326' FNE, 2120' FWL, 26
SWNW Section 33, T40S, R26E
San Juan County, Utah
Navajo Lease: N60-C-14-20-5118

Sir:

We submit this Surface Use Development Plan with the APD, Form 3160-3, for the above referenced well and the plan is as follows:

1. To reach the location start in front of the Thiftway Store at Aneth, Utah and go ^{south} ~~west~~ 1.7 miles on Utah Highway 262; then turn ~~right~~ ^{Left} (north) onto County Road 405 and go 4.5 miles to ~~an~~ ^{an} intersection of County Road 405 and ~~204~~ ²⁰⁴; then turn ~~right~~ ^{right} (east) on ~~County Road 404~~ ^{County Road 404} and go 1.0 miles to an intersection; then turn right (south) onto unit road and go 1.7 miles to the access road to the well. (See plat #3).
2. An access road of approximately ^{880'} ~~400'~~ will be constructed from the location ^{at the} ~~location~~ northwest to the existing ~~McElmo Creek Unit~~ road.
3. Superior does have a current inventory of all existing wells within a one mile radius of the proposed well. Attached is Plat #5 showing existing wells in the area as our information shows it.
4. Superior has existing production facilities ^{at Sentinel Peak 27-32 well location,} in the ~~SW-1/4~~ ^{SW-1/4} of Section ~~23~~ ²³, and a production flowline, approximately 2800' in length, will be laid from this well to the above production facility. (See Plat #4). An electrical powerline approximately ^{1320'} ~~850'~~ in length will be constructed to the ~~northwest~~ ^{proposed} from the well to the ~~existing unit~~ power system (See Plat #7).
5. Location and type of water supply will be from Superior's McElmo Creek Unit fresh water supply wells near the San Juan River (SW-1/2 Sec. 17, T41S, R25E SLM). Water will be trucked to the location over existing roads and access road to be built.

SUPERIOR OIL

Page 2

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7. Methods of handling waste disposals are as follows:
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SUPERIOR OIL

Page 3

12. Any additional questions, requests and/or unanticipated developments will be channeled through the appropriate individuals of the BLM & BIA. Superior Oil has not selected a drilling contractor at this time. All dirt contractors bidding for the location construction were in attendance during the pre-drill site inspection.
13. As for the contacts with Superior Oil, the following are company and contract representatives:

Permitting - C. J. Benally
Construction - C. D. Likes
Drilling - J. E. Gagneaux

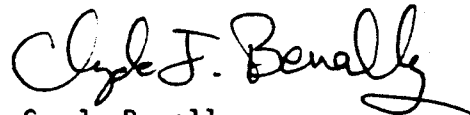
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Telephone: 303-565-3733 (24 hrs)

Dirt Contractor - Not yet determined.

Drilling Contractor - Not yet determined.

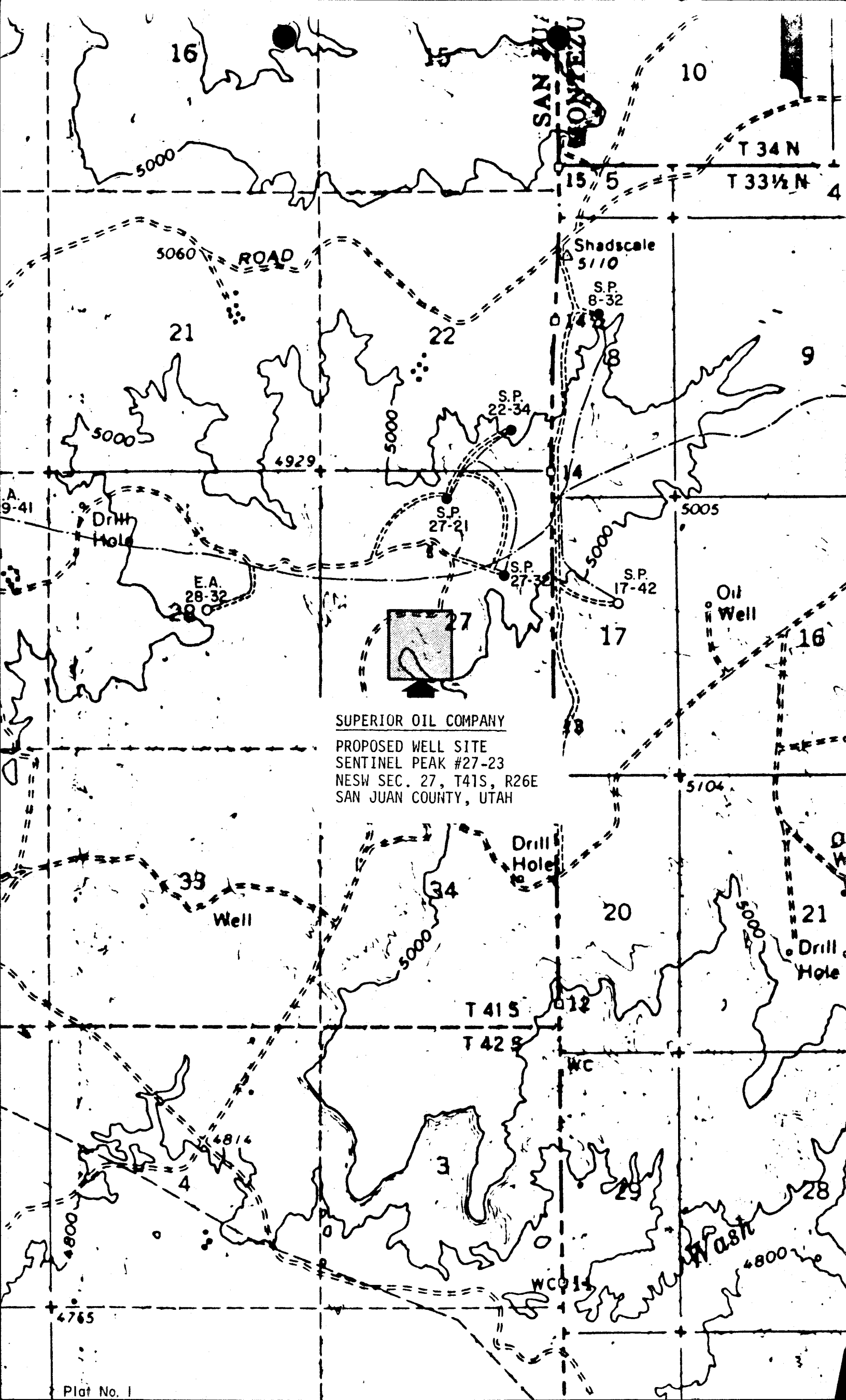
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Superior Oil Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. The statement is subject to the provision of 18 U.S.C. 1001 for the filing of a false statement.

SUPERIOR OIL COMPANY



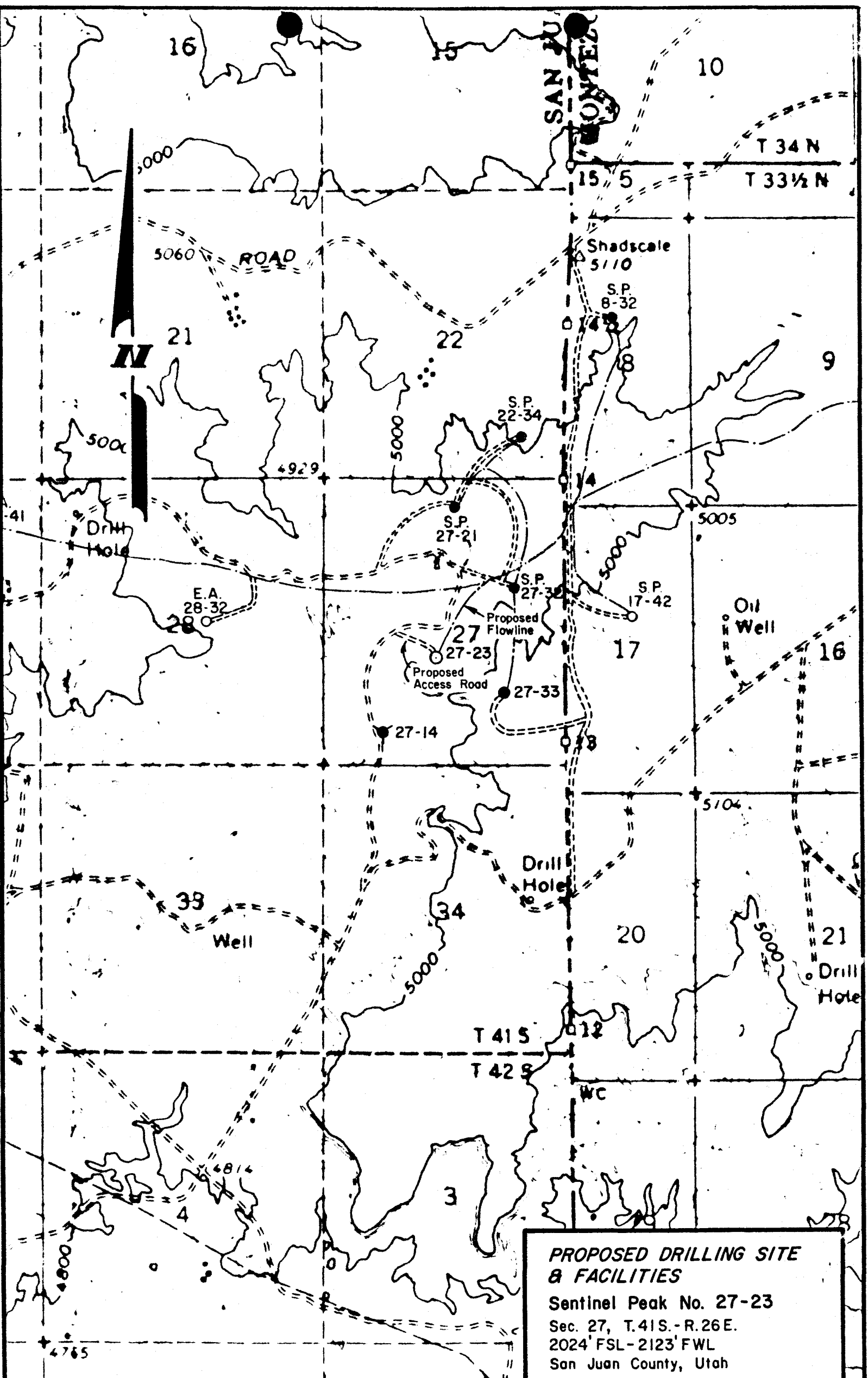
C. J. Benally
Environmental Coordinator

CJB/1h



SUPERIOR OIL COMPANY

PROPOSED WELL SITE
SENTINEL PEAK #27-23
NESW SEC. 27, T41S, R26E
SAN JUAN COUNTY, UTAH



**PROPOSED DRILLING SITE
& FACILITIES**

Sentinel Peak No. 27-23

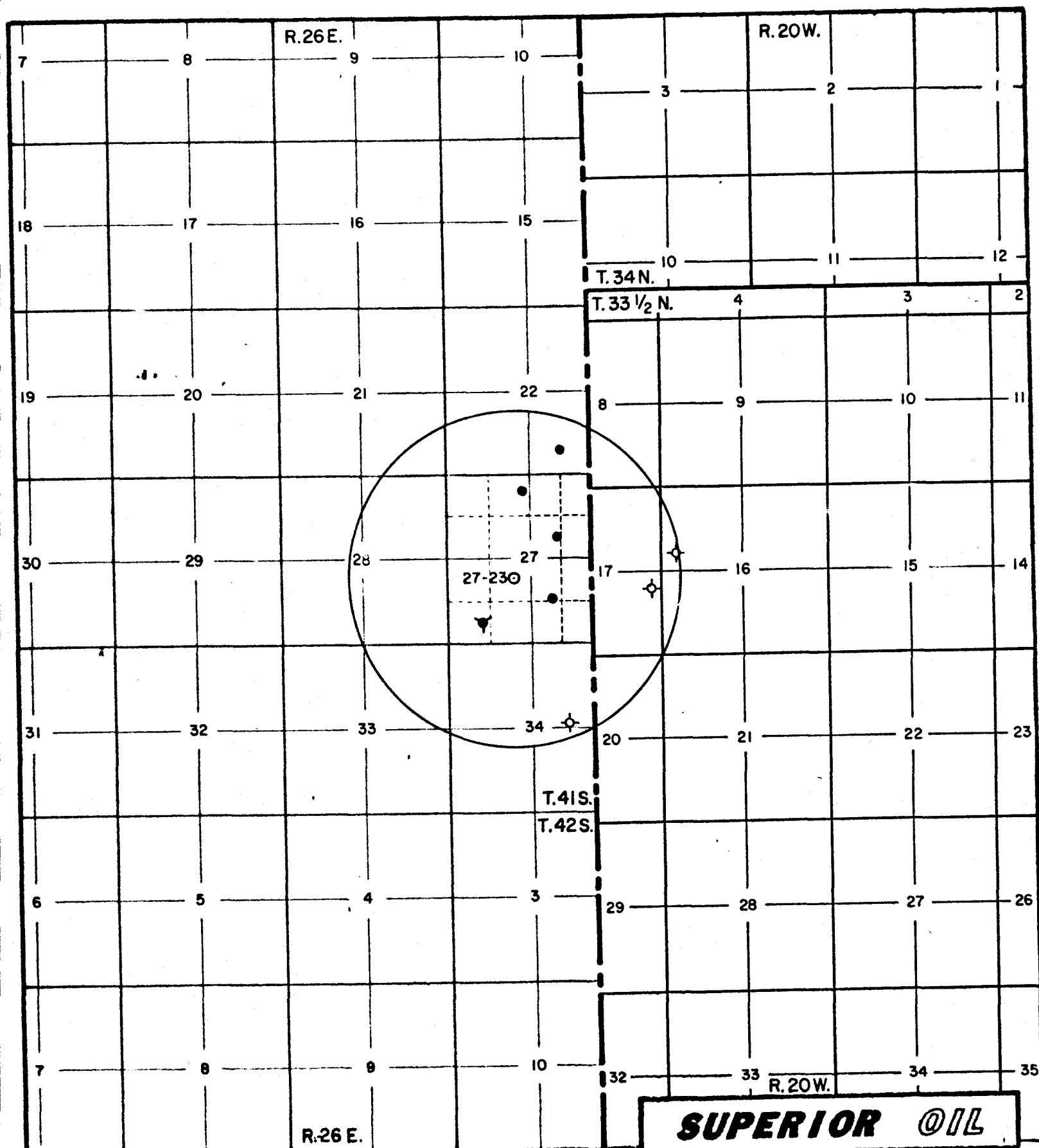
Sec. 27, T.41S.-R.26E.

2024' FSL-2123' FWL

San Juan County, Utah

DRAWN BY: JEG DATE: 1-15-85 SCALE: 1"=2000'

SUPERIOR OIL WESTERN DIVISION



- .4.
 ○ Proposed Well
 ● Producing Well
 ☆ Gas Well
 ⊕ Water Injection Well
 ⊖ Temporarily Abandoned
 ⊕ Plugged and Abandoned

Plot No 3

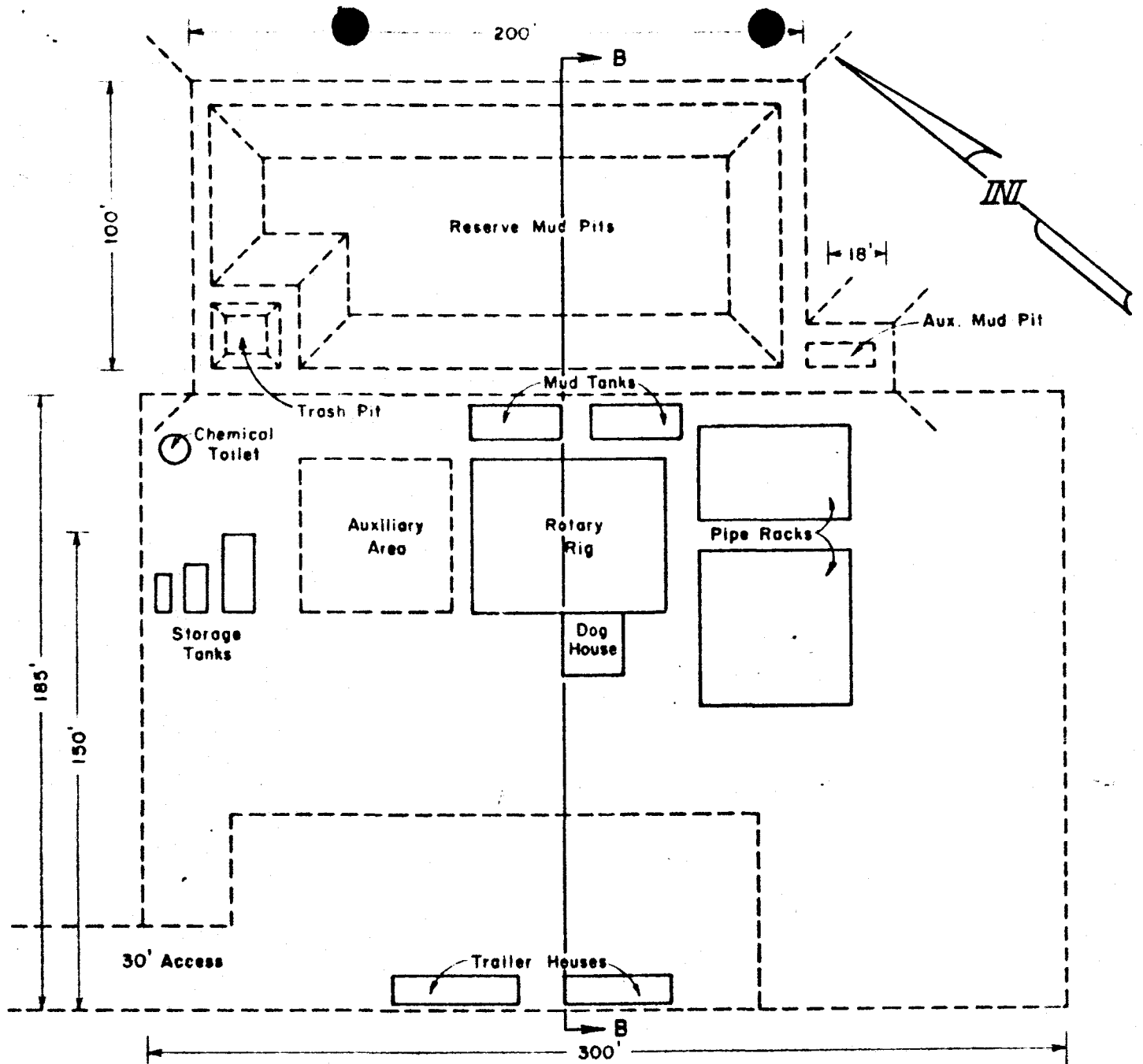
SUPERIOR OIL

**EXISTING WELLS
SURROUNDING
PROPOSED WELL**

0 1/2 1 mile

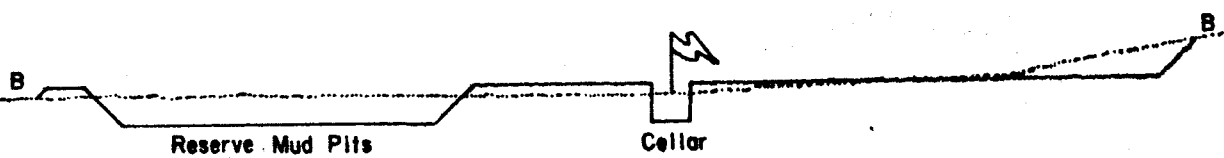
By JEG

Date: 1/15/85



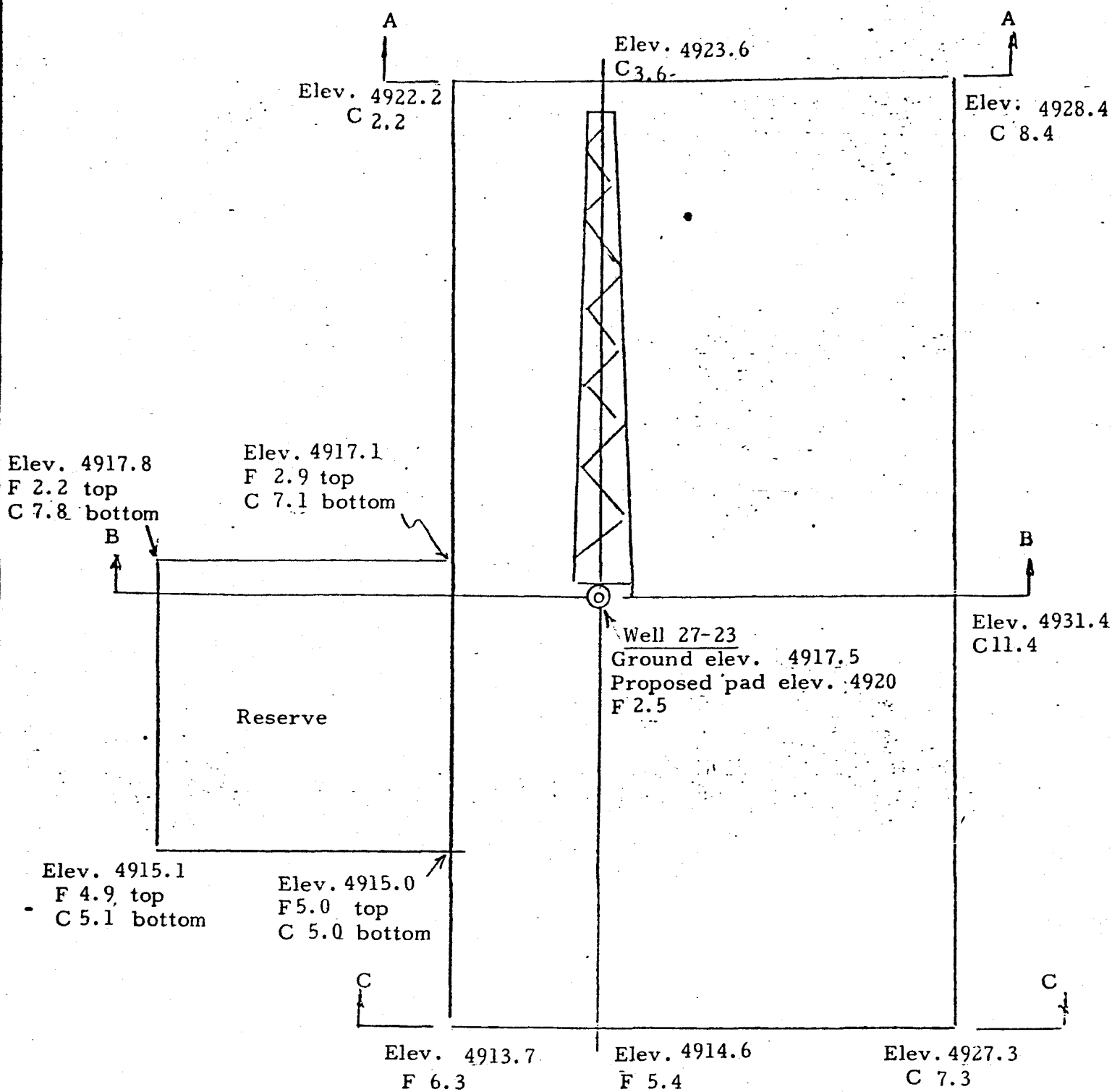
The Drilling Pad will be graded and compacted, and composed of native materials.

PROPOSED WELL SITE
S. P. No. 27-23
Original Elev. 4917.5'



Original Contour
Reference Point
Graded Proposal

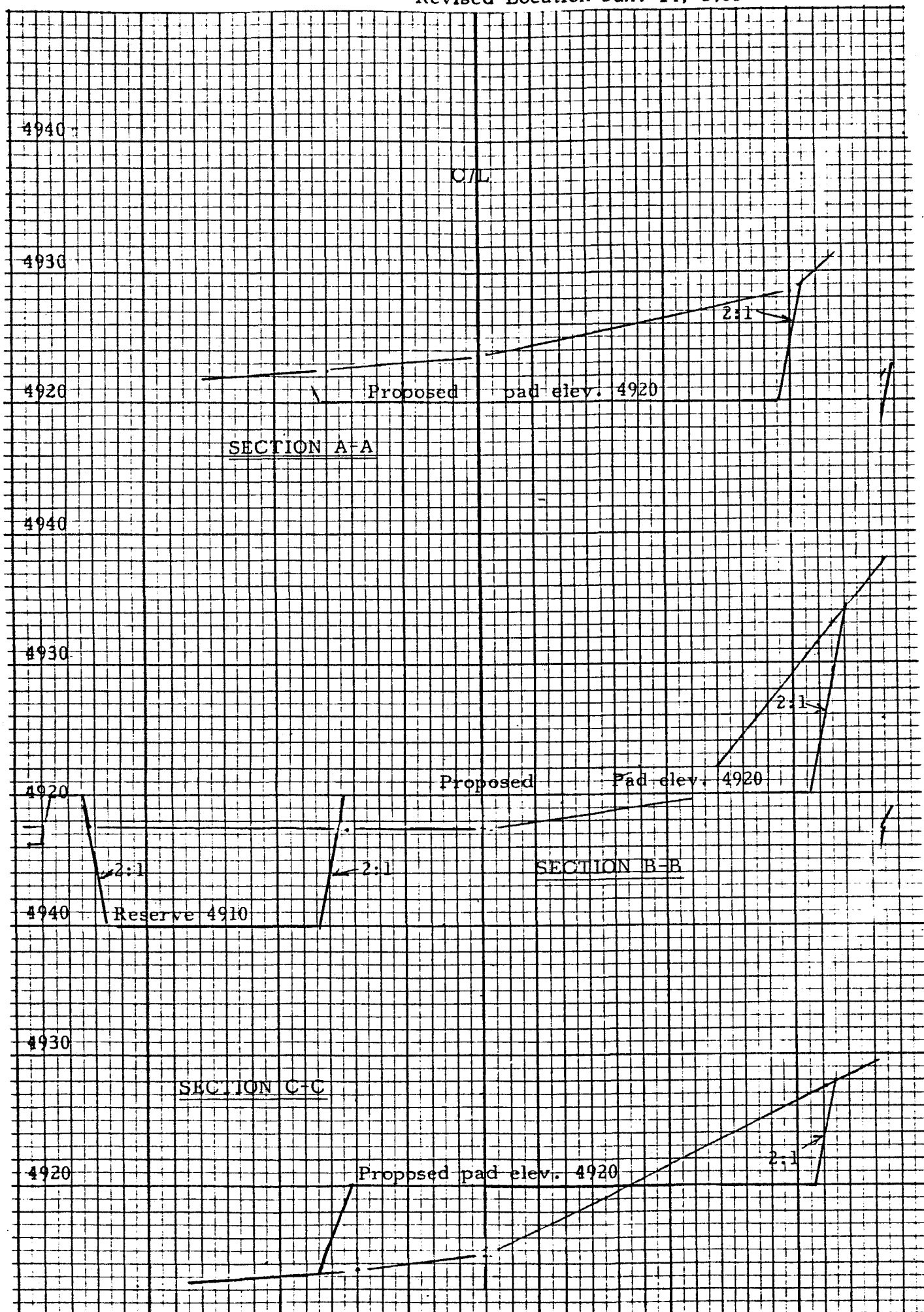
THE SUPERIOR OIL CO.
CORTIZ CASPER DISTRICT
ENGINEERING DEPARTMENT
**RIG LAYOUT & DRILL
PAD CROSS SECTION**
Sentinel Peak No. 27-23
Sec. 27, T.41S. - R.26E.
San Juan County, Utah
BY JEG DATE 1/18/85
SCALE 1" = 50' REVISED



THOMAS Engineering Inc.

25 N. Linden
 Cortez, Colorado
 565-4496

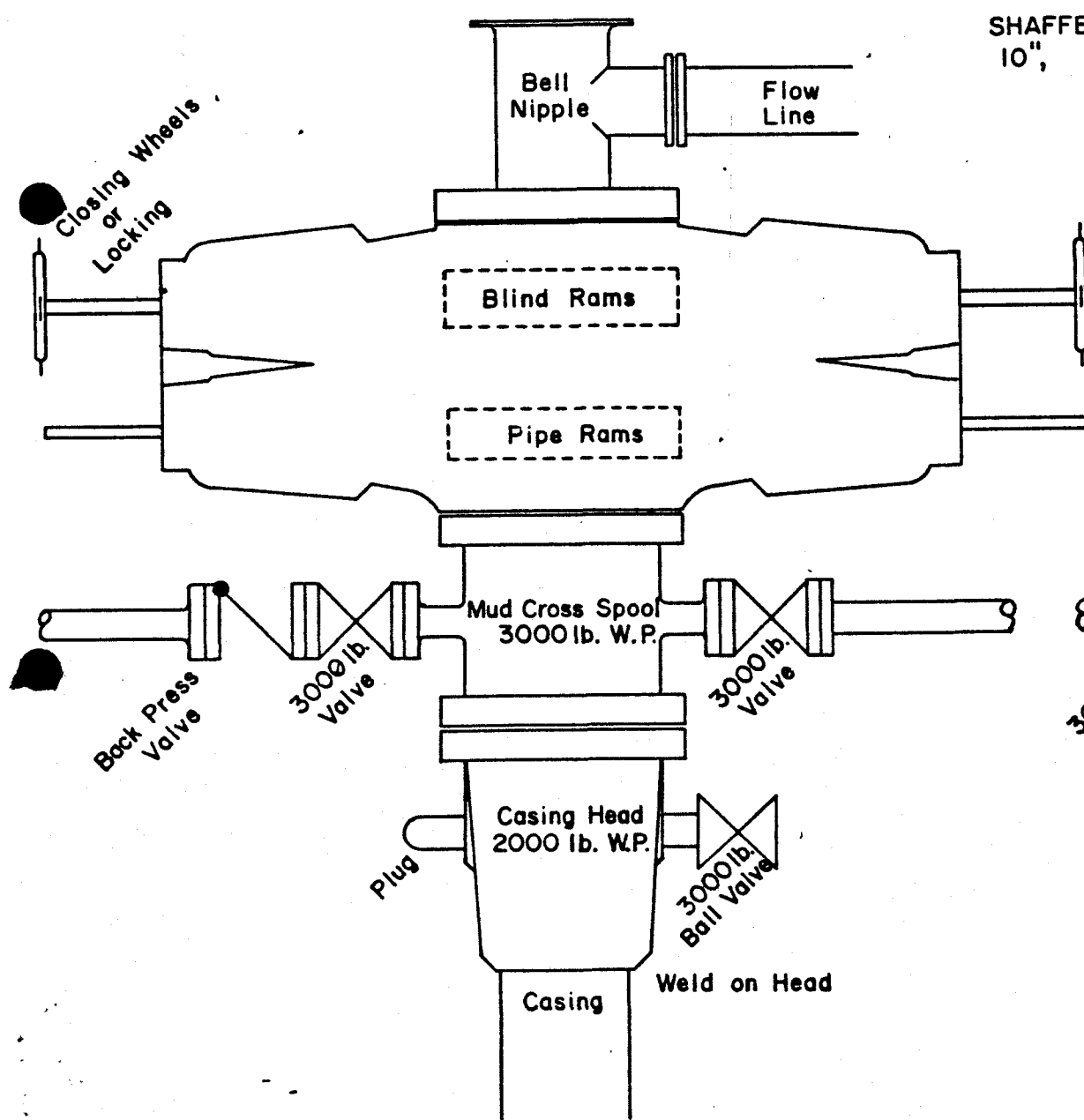
Revised Location Jan. 14, 1985



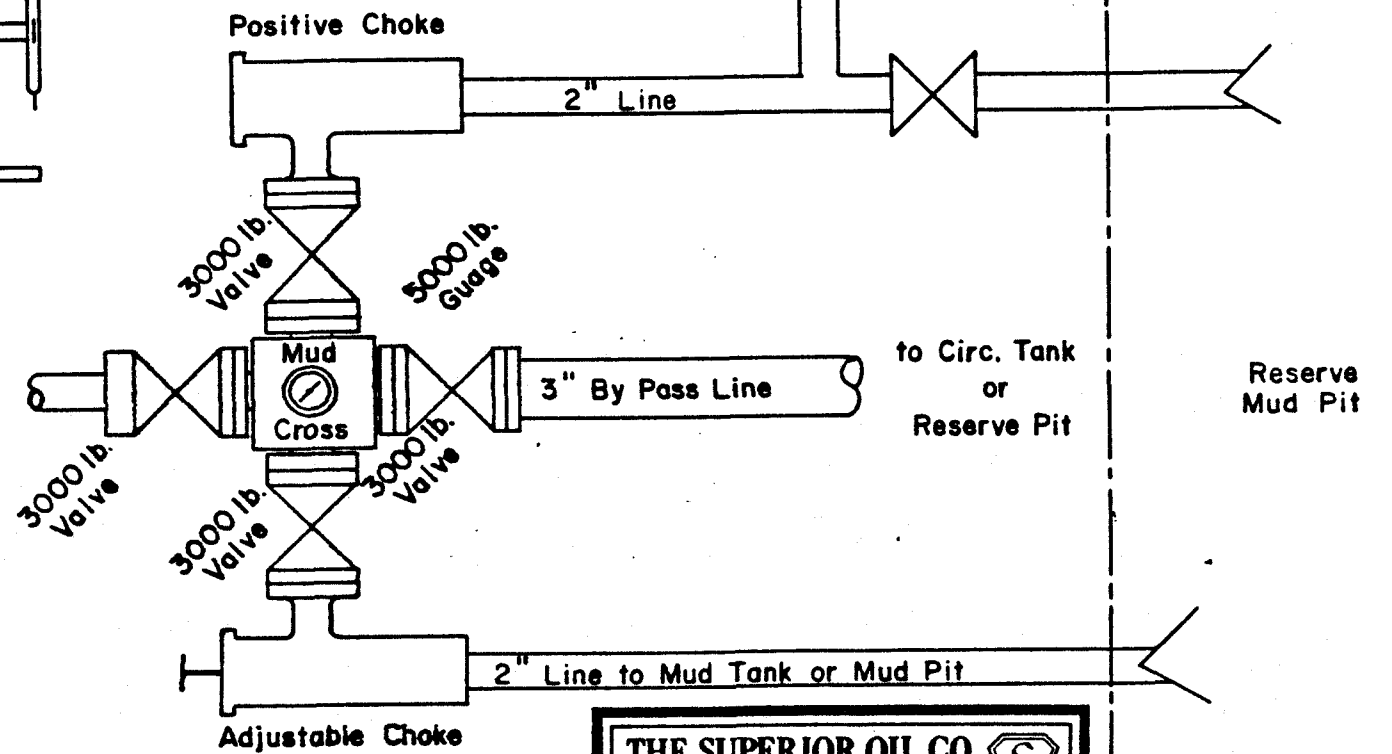
Horizontal scale: 1" = 50'
Vertical scale: 1" = 10'

THOMAS Engineering Inc.

215 N. Linden
Cortez, Colorado
565-4496



SHAFFER DOUBLE GATE BLOW OUT PREVENTER
10", 3000 lb. W.P., 6000 lb. Test, Type E



THE SUPERIOR OIL CO.		
CORTEZ - CASPER DISTRICT ENGINEERING DEPARTMENT		
SCHEMATIC DIAGRAM OF PRESSURE CONTROL EQUIPMENT		
BY JEG	DATE 6/28/70	
SCALE NONE	REVISED	

OPERATOR Superior Oil DATE 2-1-85
WELL NAME Sentinel Peak #27-23
SEC NESW 27 T 41S R 26E COUNTY San Juan

43037-31144
API NUMBER

Indian
TYPE OF LEASE

CHECK OFF:



PLAT



BOND



NEAREST WELL



LEASE



FIELD



POTASH OR
OIL SHALE

PROCESSING COMMENTS:

No other wells within 1000'

Need water permit

APPROVAL LETTER:

SPACING:



A-3

UNIT



C-3-a

CAUSE NO. & DATE



C-3-b



C-3-c

STIPULATIONS:

1 Water



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

February 5, 1985

Superior Oil Company
P. O. Drawer 'G'
Cortez, Colorado 81321

Gentlemen:

Re: Well No. Sentinel Peak #27-23 - NW SW Sec. 27, T. 41S, R. 26E
2024' FSL, 2123' FWL - San Juan County, Utah

Approval to drill the above referenced oil well is hereby granted in accordance with Rule C-3 (b), General Rules and Regulations and Rules of Practice and Procedure, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.

In addition, the following actions are necessary to fully comply with this approval:

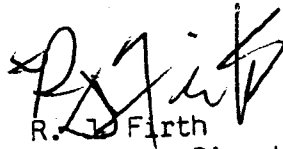
1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695 or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

Page 2
Superior Oil Company
Well No. Sentinel Peak #27-23
February 5, 1985

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31144.

Sincerely,



R. L. Firth
Associate Director, Oil & Gas

as
Enclosures
cc: Branch of Fluid Minerals
Bureau of Indian Affairs

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED

OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

SUPERIOR OIL COMPANY

APR 08 1985

3. ADDRESS OF OPERATOR

P. O. DRAWER G, CORTEZ, COLORADO 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface

DIVISION OF OIL
GAS & MINING

2069' FSL, 2123' FWL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

Ungraded Ground Level: 4917.5'

5. LEASE DESIGNATION AND SERIAL NO.

N00-C-14-5118

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Sentinel Peak

9. WELL NO.

27-23

10. FIELD AND POOL, OR WILDCAT

Sentinel Peak

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec 27 T41S R26E, SLM

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

Correction of Surface Location

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Due to a mistake during the preparation of the drill site location plat, the January 14, 1985 revised footage of 2069' FSL and 2123' FWL of this location was incorrectly recorded as 2024' FSL and 2123' FWL on the APD, dated 1/24/85, submitted to your office.

The footage of the January 14, 1985 restaking per BIA request is 2069' FSL and 2123' FWL and therefore no adjustment of field survey is necessary.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 7/11/85

BY: John R. Benally

18. I hereby certify that the foregoing is true and correct

SIGNED

Chas. J. Benally
C. J. Benally

TITLE Sr. Regulatory Coordinator

DATE

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Revised Location Jan. 14, 1985

(Sheet 1 revised
4-2-85)

Well 27-23 is located in the NE $\frac{1}{4}$ SW $\frac{1}{4}$
of Section 27, T.41S., R.26E., SLM,
San Juan County, Utah

SECTION 27,
T.41S., R.26E., SLM,
San Juan County, Utah

Well 27-23

2123'

2069'

Utah
Colorado

Scale: 1" = 1000'

Roadway-880' long
at 1% grade

Ref. elev.
4914.3

Power Line:

Flow Line:

Reserve

N.47°36'06"W
205.10'

Well 27-23
Elev. 4917.5

S.30°43'40"E.
203.87'

Laydown
S.39°11'26"E.

Ref. elev. 4926.4

N

Scale: 1" = 100'



Vegetation: Scattered grass.
Soil: Clayey sand.

KNOW ALL MEN BY THESE PRESENTS:
THAT I, FREDRIC P. THOMAS
do hereby certify that I prepared this plat from an
actual and accurate survey of the land and that the
same is true and correct to the best of my knowledge
and belief.

Fredric P. Thomas

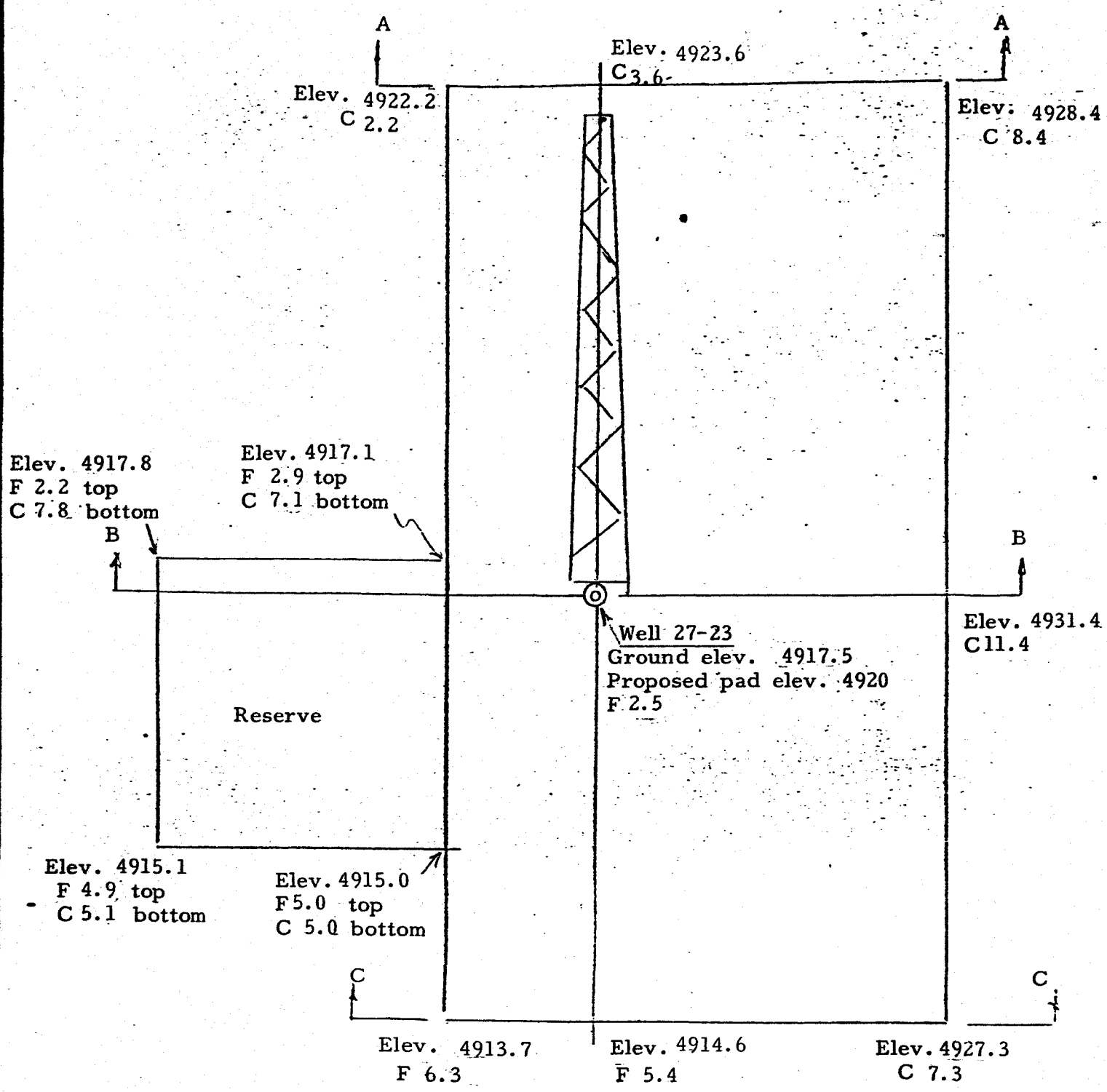
FREDRIC P. THOMAS
Reg. L.S. and P.E.
Colo. Reg. No. 6728

Bearing by
Solar
observation

Utah Reg. No. 4346

THOMAS Engineering Inc.

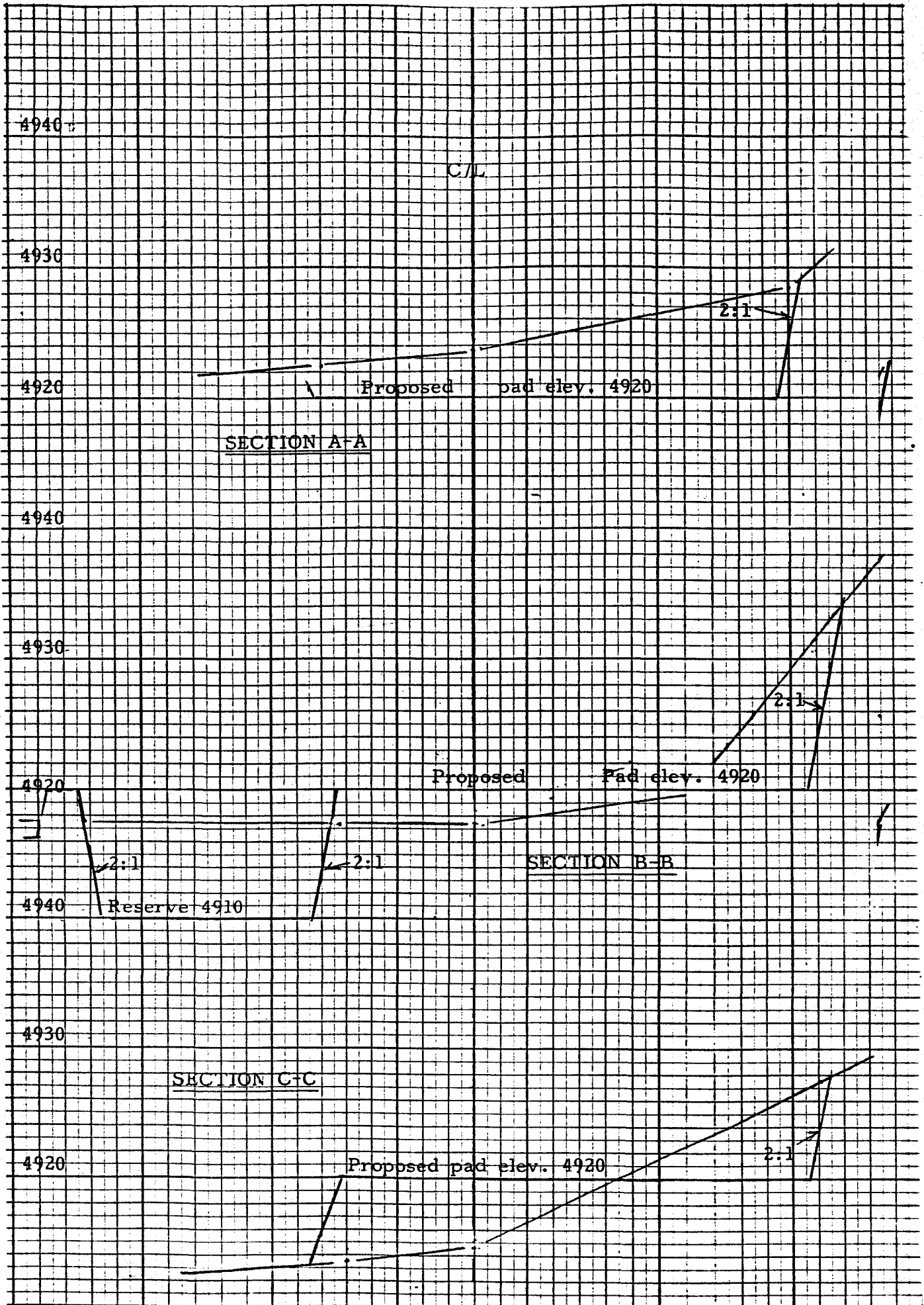
215 N. Linden
Cortez, Colorado
565-4496



THOMAS Engineering Inc.

25 N. Linden
Cortez, Colorado
565-4496

Revised Location Jan. 14, 1985



Horizontal scale: 1" = 50'
Vertical scale: 1" = 10'

THOMAS Engineering Inc.

215 N. Linden
Cortez, Colorado
565-4496

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPL
(Other instructions
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. N00-C-14-5118
2. NAME OF OPERATOR Superior Oil Company/Mobil Oil Agent		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
3. ADDRESS OF OPERATOR P.O. Drawer G Cortez, Co. 81321		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2069' FSL 2123'FWL		8. FARM OR LEASE NAME Sentinel Peak
14. PERMIT NO.		9. WELL NO. 27-23
15. ELEVATIONS (Show whether DF, RT, GR, etc.) Ungraded GL 4917.5		10. FIELD AND POOL, OR WILDCAT Sentinel Peak
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 27 T41 S-R26E, SIM
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

It is now proposed to cement the long string with a DV tool to be located at 3400'.
248 cubic ft. of cement will be located from TD to 4650' and 184 cubic ft. will be located from the DV tool to 2700'.

Federal approval of this action
is required before commencing
operations.

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE

BY

6/24/85
John R. Bay

18. I hereby certify that the foregoing is true and correct

SIGNED

C. N. Eggerman

TITLE

Sr. Regulatory Engineering
Advisor

DATE

6/13/85

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

August 2, 1985

RECEIVED

AUG 09 1985

Utah Division of Oil, Gas and Mining
3 Triad Center, Suite 350
355 W.N. Temple Street
Salt Lake City, Utah 84180-1203

DIVISION OF OIL
GAS & MINING

Dear Sirs:

Enclosed is your final copy of the Well Log covering:

Mobil Oil Corporation
Sentinel Peak #27-23
Sec. 27, T41S, R26E
San Juan County, Utah

Should you have any questions pertaining to this Well Log
or if we can be of assistance in any other matter, please
do not hesitate to contact us.

Sincerely,



Joel R. Parise
Vice President
Sales and Operations

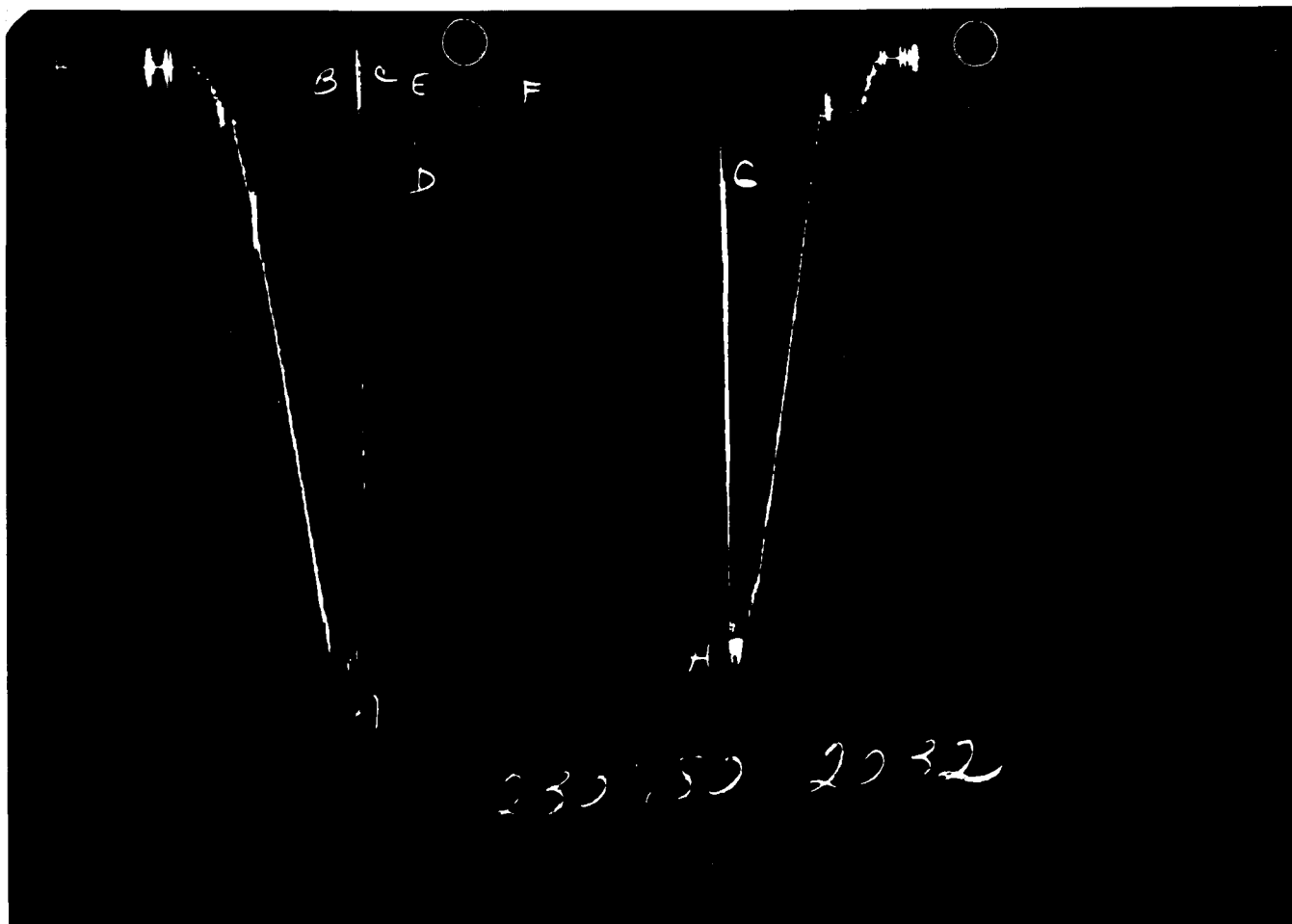
JRP:mh



TICKET NO. 23078000
24-JUL-85
FARMINGTON

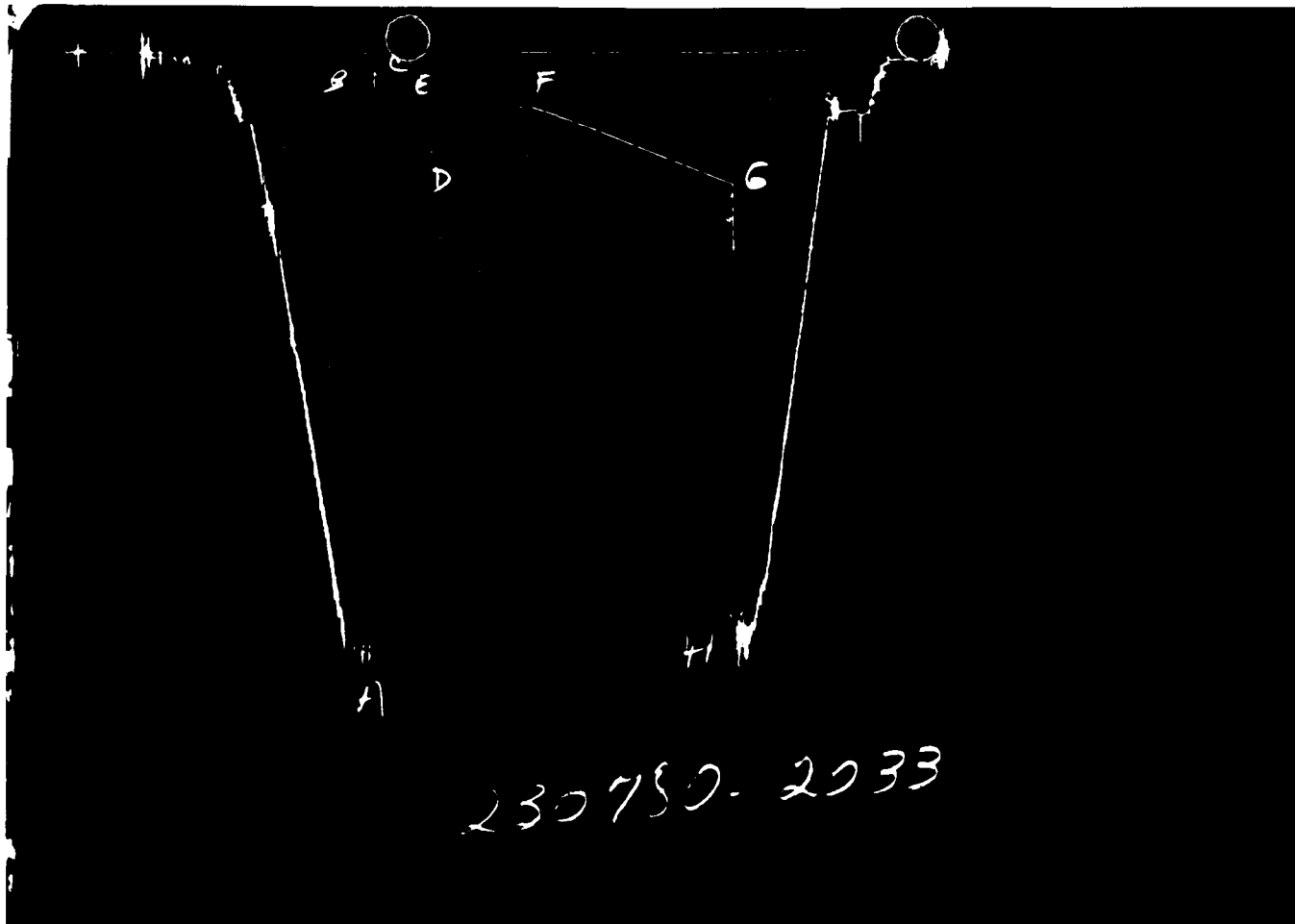
FORMATION TESTING SERVICE REPORT

SENTINEL PEAK		27-23	1	5644.0 - 5716.0	MOBIL OIL CORPORATION
LEASE NAME		WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME
LEGAL LOCATION SEC. - TYP. - RMC.	27-41S-26E	FIELD AREA	WILDCAT	COUNTY	SAN JUAN STATE UTAH IC



GAUGE NO: 2032 DEPTH: 5623.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3163	3089.6			
B	INITIAL FIRST FLOW	93	61.6			
C	FINAL FIRST FLOW	100	136.5	15.0	17.6	F
C	INITIAL FIRST CLOSED-IN	100	136.5			
D	FINAL FIRST CLOSED-IN	480	482.1	54.0	50.8	C
E	INITIAL SECOND FLOW	200	199.6			
F	FINAL SECOND FLOW	253	243.3	120.0	119.2	F
F	INITIAL SECOND CLOSED-IN	253	243.3			
G	FINAL SECOND CLOSED-IN	652	649.1	239.0	237.1	C
H	FINAL HYDROSTATIC	3043	3071.4			



GAUGE NO: 2033 DEPTH: 5713.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3200	3143.4			
B	INITIAL FIRST FLOW	93	95.9			
C	FINAL FIRST FLOW	133	182.9	15.0	17.6	F
C	INITIAL FIRST CLOSED-IN	133	182.9			
D	FINAL FIRST CLOSED-IN	534	528.3	54.0	50.8	C
E	INITIAL SECOND FLOW	240	250.4			
F	FINAL SECOND FLOW	294	286.8	120.0	119.2	F
F	INITIAL SECOND CLOSED-IN	294	286.8			
G	FINAL SECOND CLOSED-IN	668	690.3	239.0	237.1	C
H	FINAL HYDROSTATIC	3080	3117.1			

EQUIPMENT & HOLE DATA

FORMATION TESTED: UPPER ISMAY

NET PAY (ft): _____

GROSS TESTED FOOTAGE: 72.0

ALL DEPTHS MEASURED FROM: KELLY BUSHING

CASING PERFS. (ft): _____

HOLE OR CASING SIZE (in): 8.750

ELEVATION (ft): 4917.5 + 14' K.B.

TOTAL DEPTH (ft): 5716.0

PACKER DEPTH(S) (ft): 5638. 5644

FINAL SURFACE CHOKE (in): _____

BOTTOM HOLE CHOKE (in): 0.750

MUD WEIGHT (lb/gal): 10.50

MUD VISCOSITY (sec): 43

ESTIMATED HOLE TEMP. (°F): _____

ACTUAL HOLE TEMP. (°F): 160 @ 5713.0 ft

TICKET NUMBER: 23078000

DATE: 7-15-85 TEST NO: 1

TYPE DST: OPEN HOLE

HALLIBURTON CAMP:

FARMINGTON

TESTER: D. G. FOSTER

WITNESS: ???

DRILLING CONTRACTOR:

ENERGY SEARCH #1

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
<u>MUD PIT</u>	<u>1.700 @ 75 °F</u>	<u>788</u> ppm
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm

SAMPLER DATA

Pstg AT SURFACE: 140.0

cu.ft. OF GAS: 0.041

cc OF OIL: 2150.0

cc OF WATER: _____

cc OF MUD: 150.0

TOTAL LIQUID cc: 2300.0

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ _____ °F

GAS/OIL RATIO (cu.ft. per bbl): _____

GAS GRAVITY: 45.000

CUSHION DATA

TYPE	AMOUNT	WEIGHT
<u>DRILLING MUD-GAL</u>	<u>5.0</u>	<u>10.50</u>

RECOVERED:

480 FEET OF GAS AND OIL CUT MUD
(2.3 BARRELS)

MEASURED FROM
TESTER VALVE

REMARKS:

NO OTHER RESISTIVITIES WERE TAKEN BECAUSE OF OIL AND GAS CUTTINGS.

CHARTS INDICATE A POSSIBLE LEAK IN THE TUBULAR GOODS ABOVE THE TOOL. THE REQUESTED CALCULATION SERVICES COULD NOT BE PERFORMED DUE TO THE LACK OF SUFFICIENT CLOSED-IN PERIOD DATA. PLOTS OF THE CLOSED-IN PERIOD DATA ARE PROVIDED FOR YOUR INSPECTION.

26 FEET OF DRILL PIPE STUCK UP ABOVE K.B. WAS REPORTED.

TICKET NO: 23078000

CLOCK NO: 9756 HOUR: 24



HALLIBURTON

 SERVICES

GAUGE NO: 2032

DEPTH: 5623.0

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$	REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW						SECOND FLOW - CONTINUED					
B	1	0.0	61.6			F	13	119.2	243.3	4.0	
	2	3.0	82.5	20.9		SECOND CLOSED-IN					
	3	6.0	96.7	14.1		F	1	0.0	243.3		
	4	9.0	108.8	12.1			2	1.0	245.4	2.1	1.0 2.148
	5	12.0	119.3	10.5			3	2.0	247.7	4.4	2.0 1.837
	6	15.0	128.9	9.6			4	3.0	249.4	6.1	3.0 1.664
C	7	17.6	136.5	7.6			5	4.0	251.0	7.7	3.9 1.549
FIRST CLOSED-IN							6	5.0	252.5	9.2	4.8 1.451
C	1	0.0	136.5				7	6.0	253.4	10.1	5.8 1.374
	2	1.0	147.4	10.8	1.0 1.260		8	7.0	254.7	11.5	6.6 1.314
	3	2.0	157.9	21.3	1.8 0.983		9	8.0	256.2	12.9	7.6 1.258
	4	3.0	165.1	28.5	2.6 0.836		10	9.0	257.7	14.4	8.4 1.209
	5	4.0	173.2	36.7	3.3 0.732		11	10.0	259.7	16.4	9.3 1.166
	6	5.0	180.7	44.1	3.9 0.656		12	12.0	263.9	20.7	11.0 1.093
	7	6.0	190.2	53.6	4.5 0.594		13	14.0	265.8	22.5	12.7 1.032
	8	7.0	198.0	61.5	5.0 0.547		14	16.0	269.0	25.8	14.4 0.979
	9	8.0	204.7	68.1	5.5 0.506		15	18.0	271.9	28.7	15.9 0.934
	10	9.0	213.4	76.8	5.9 0.473		16	20.0	274.5	31.2	17.5 0.894
	11	10.0	222.3	85.8	6.4 0.441		17	22.0	277.0	33.8	18.9 0.859
	12	12.0	238.6	102.0	7.1 0.393		18	24.0	281.1	37.9	20.4 0.826
	13	14.0	252.2	115.6	7.8 0.355		19	26.0	284.0	40.7	21.9 0.797
	14	16.0	267.4	130.8	8.4 0.323		20	28.0	286.6	43.4	23.2 0.770
	15	18.0	281.9	145.4	8.9 0.297		21	30.0	289.8	46.6	24.6 0.746
	16	20.0	298.9	162.3	9.4 0.274		22	35.0	297.7	54.4	27.9 0.691
	17	22.0	312.5	175.9	9.8 0.255		23	40.0	305.2	61.9	31.0 0.645
	18	24.0	325.9	189.4	10.2 0.239		24	45.0	312.4	69.1	33.9 0.607
	19	26.0	337.7	201.1	10.5 0.225		25	50.0	320.4	77.1	36.6 0.572
	20	28.0	350.1	213.5	10.8 0.212		26	55.0	327.8	84.6	39.2 0.543
	21	30.0	361.5	225.0	11.1 0.201		27	60.0	336.7	93.4	41.7 0.516
	22	35.0	389.7	253.1	11.7 0.177		28	70.0	352.7	109.4	46.3 0.470
	23	40.0	416.1	279.5	12.2 0.159		29	80.0	370.5	127.3	50.5 0.433
	24	45.0	445.2	308.6	12.7 0.144		30	90.0	389.1	145.8	54.3 0.402
D	25	50.8	482.1	345.5	13.1 0.130		31	100.0	407.4	164.1	57.8 0.375
SECOND FLOW							32	110.0	425.3	182.0	61.0 0.351
E	1	0.0	199.6				33	120.0	442.7	199.5	63.9 0.331
	2	10.0	199.9	0.3			34	135.0	468.7	225.5	68.0 0.304
	3	20.0	207.1	7.2			35	150.0	496.1	252.8	71.6 0.282
	4	30.0	211.5	4.4			36	165.0	523.0	279.7	74.8 0.262
	5	40.0	216.4	4.9			37	180.0	550.6	307.4	77.7 0.246
	6	50.0	220.8	4.4			38	195.0	577.1	333.8	80.4 0.231
	7	60.0	221.8	0.9			39	210.0	603.4	360.2	82.9 0.218
	8	70.0	224.0	2.3			40	225.0	630.3	387.0	85.1 0.206
	9	80.0	228.2	4.1		G	41	237.1	649.1	405.8	86.8 0.198
	10	90.0	231.6	3.5							
	11	100.0	235.7	4.0							
	12	110.0	239.3	3.6							

REMARKS:

TICKET NO: 23078000

CLOCK NO: 7276 HOUR: 24





















GAUGE NO: 2033

DEPTH: 5713.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	95.9			
2	3.0	112.8	16.9		
3	6.0	133.9	21.1		
4	9.0	148.9	15.0		
5	12.0	162.7	13.8		
6	15.0	174.0	11.4		
C 7	17.6	182.9	8.8		
FIRST CLOSED-IN					
C 1	0.0	182.9			
2	1.0	190.6	7.8	0.9	1.273
3	2.0	198.6	15.8	1.8	0.995
4	3.0	207.5	24.6	2.6	0.836
5	4.0	217.1	34.2	3.3	0.733
6	5.0	226.7	43.9	3.9	0.654
7	6.0	234.6	51.8	4.5	0.598
8	7.0	241.4	58.6	5.0	0.546
9	8.0	251.1	68.2	5.5	0.507
10	9.0	260.0	77.2	5.9	0.472
11	10.0	269.3	86.4	6.4	0.442
12	12.0	282.6	99.8	7.1	0.394
13	14.0	298.9	116.1	7.8	0.354
14	16.0	314.2	131.3	8.4	0.323
15	18.0	328.1	145.2	8.9	0.297
16	20.0	344.1	161.3	9.4	0.275
17	22.0	358.2	175.3	9.8	0.256
18	24.0	371.2	188.3	10.2	0.240
19	26.0	384.1	201.3	10.5	0.225
20	28.0	396.7	213.8	10.8	0.212
21	30.0	410.2	227.3	11.1	0.201
22	35.0	438.6	255.7	11.7	0.177
23	40.0	465.3	282.4	12.2	0.159
24	45.0	494.2	311.3	12.7	0.144
D 25	50.8	528.3	345.5	13.1	0.130
SECOND FLOW					
E 1	0.0	250.4			
2	10.0	244.8	-5.6		
3	20.0	250.8	6.0		
4	30.0	255.5	4.7		
5	40.0	259.6	4.1		
6	50.0	263.2	3.6		
7	60.0	267.4	4.1		
8	70.0	268.9	1.5		
9	80.0	272.1	3.2		
10	90.0	276.1	4.0		
11	100.0	279.8	3.7		
12	110.0	283.4	3.6		

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
F 13	119.2	286.8	3.3		
SECOND CLOSED-IN					
F 1	0.0	286.8			
2	1.0	287.9	1.1	1.0	2.142
3	2.0	289.7	2.9	2.0	1.844
4	3.0	291.5	4.7	2.9	1.667
5	4.0	292.5	5.8	3.9	1.546
6	5.0	293.6	6.8	4.8	1.453
7	6.0	294.8	8.0	5.7	1.379
8	7.0	296.6	9.8	6.7	1.312
9	8.0	298.3	11.5	7.6	1.257
10	9.0	300.2	13.4	8.4	1.210
11	10.0	300.8	14.0	9.3	1.168
12	12.0	304.3	17.5	11.0	1.093
13	14.0	306.3	19.5	12.7	1.033
14	16.0	309.0	22.2	14.3	0.981
15	18.0	312.3	25.6	15.9	0.935
16	20.0	315.6	28.8	17.5	0.894
17	22.0	318.4	31.6	19.0	0.858
18	24.0	321.4	34.7	20.4	0.826
19	26.0	323.3	36.5	21.8	0.798
20	28.0	327.3	40.5	23.2	0.770
21	30.0	330.5	43.8	24.6	0.745
22	35.0	339.0	52.2	27.9	0.691
23	40.0	346.2	59.4	30.9	0.646
24	45.0	354.4	67.6	33.9	0.606
25	50.0	362.5	75.7	36.6	0.573
26	55.0	371.3	84.6	39.2	0.543
27	60.0	377.2	90.4	41.7	0.516
28	70.0	393.3	106.5	46.3	0.471
29	80.0	410.0	123.2	50.5	0.433
30	90.0	429.8	143.0	54.3	0.402
31	100.0	446.8	160.0	57.8	0.375
32	110.0	465.8	179.0	61.0	0.351
33	120.0	482.4	195.6	63.9	0.330
34	135.0	510.3	223.6	68.0	0.304
35	150.0	537.8	251.0	71.6	0.282
36	165.0	563.8	277.0	74.8	0.262
37	180.0	588.9	302.1	77.7	0.246
38	195.0	616.2	329.5	80.4	0.231
39	210.0	643.1	356.3	82.9	0.218
40	225.0	671.1	384.3	85.1	0.206
G 41	237.1	690.3	403.5	86.8	0.198

REMARKS:

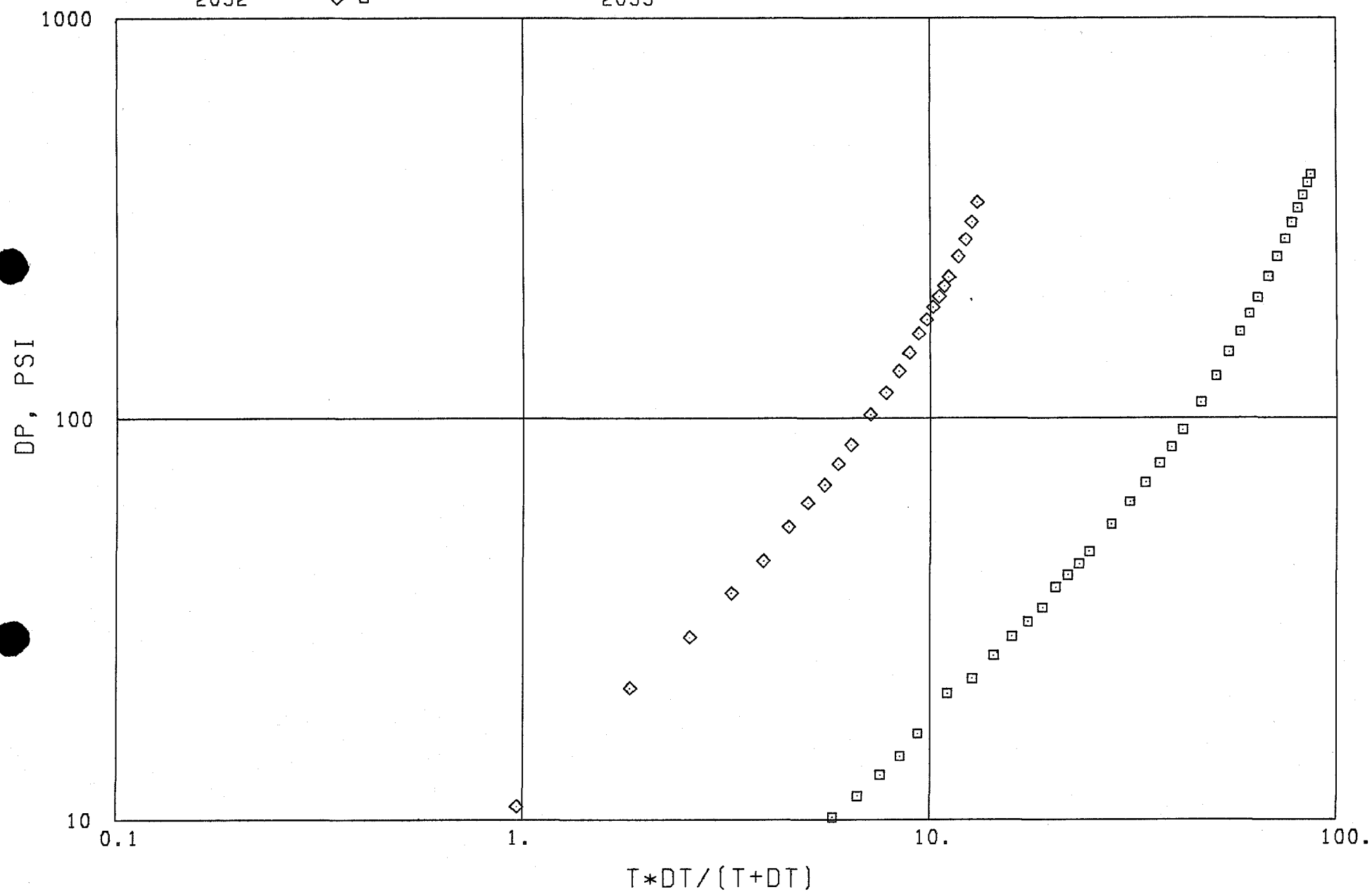
		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	5095.0	
3		DRILL COLLARS.....	6.250	2.750	476.5	
50		IMPACT REVERSING SUB.....	6.000	3.000	1.0	5546.0
51		PUMP OUT REVERSING SUB.....	6.000	3.000	1.0	5547.0
3		DRILL COLLARS.....	6.250	2.250	61.0	
5		CROSSOVER.....	6.000	3.000	1.0	
13		DUAL CIP SAMPLER.....	5.030	0.750	7.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	5621.0
80		AP RUNNING CASE.....	5.000	2.250	4.0	5623.0
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	7.750	1.530	6.0	5638.0
70		OPEN HOLE PACKER.....	7.750	1.530	6.0	5644.0
5		CROSSOVER.....	6.000	3.000	1.0	
3		DRILL COLLARS.....	6.250	2.750	29.0	
5		CROSSOVER.....	6.000	3.000	1.0	
20		FLUSH JOINT ANCHOR.....	5.750	3.000	35.0	
81		BLANKED-OFF RUNNING CASE.....	5.750		4.0	5713.0
TOTAL DEPTH						5716.0

EQUIPMENT DATA

TICKET NO 23078000

GAUGE NO CIP 1 2
2032 \diamond \square

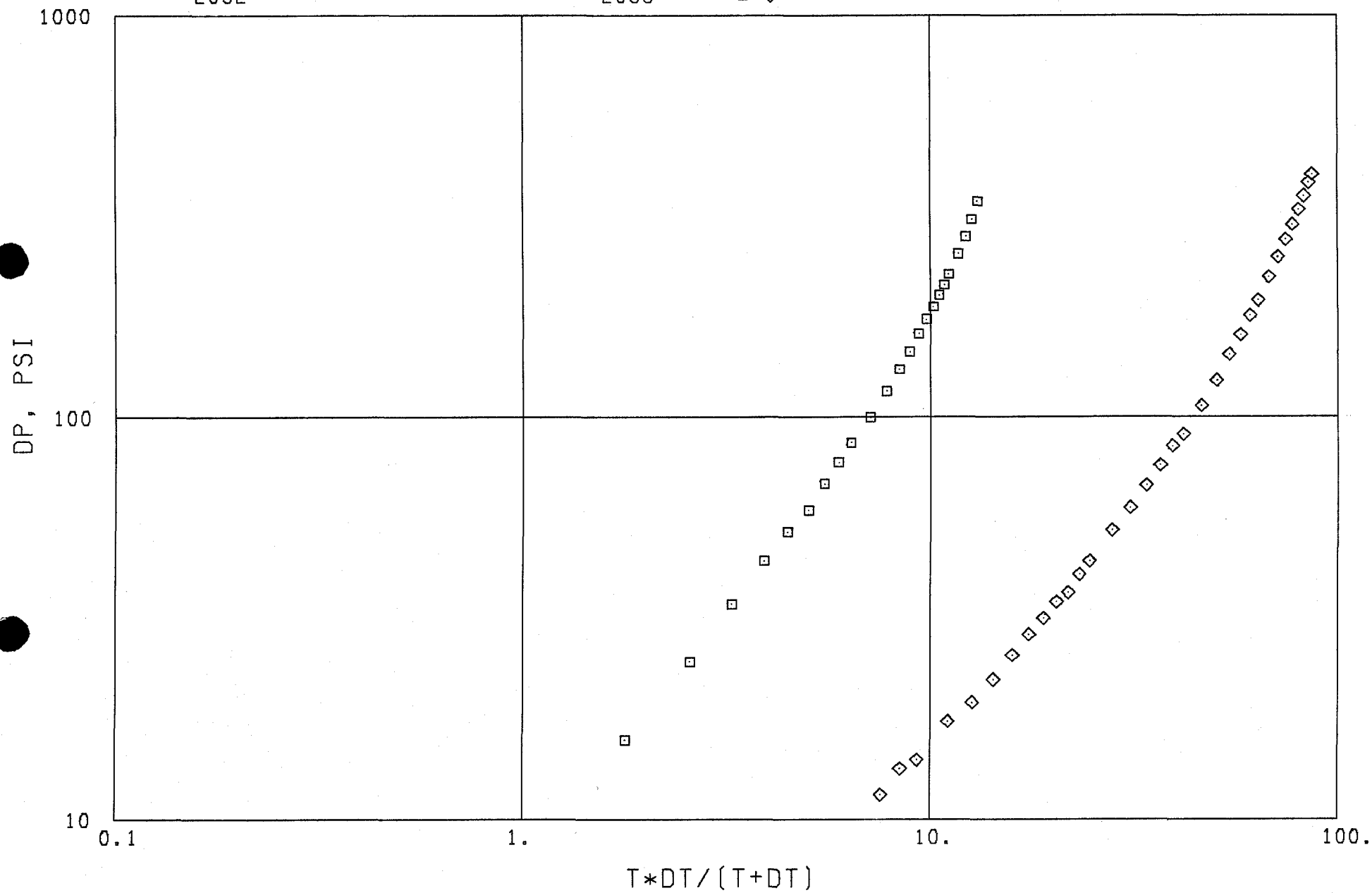
GAUGE NO CIP 1 2
2033



TICKET NO 23078000

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2032

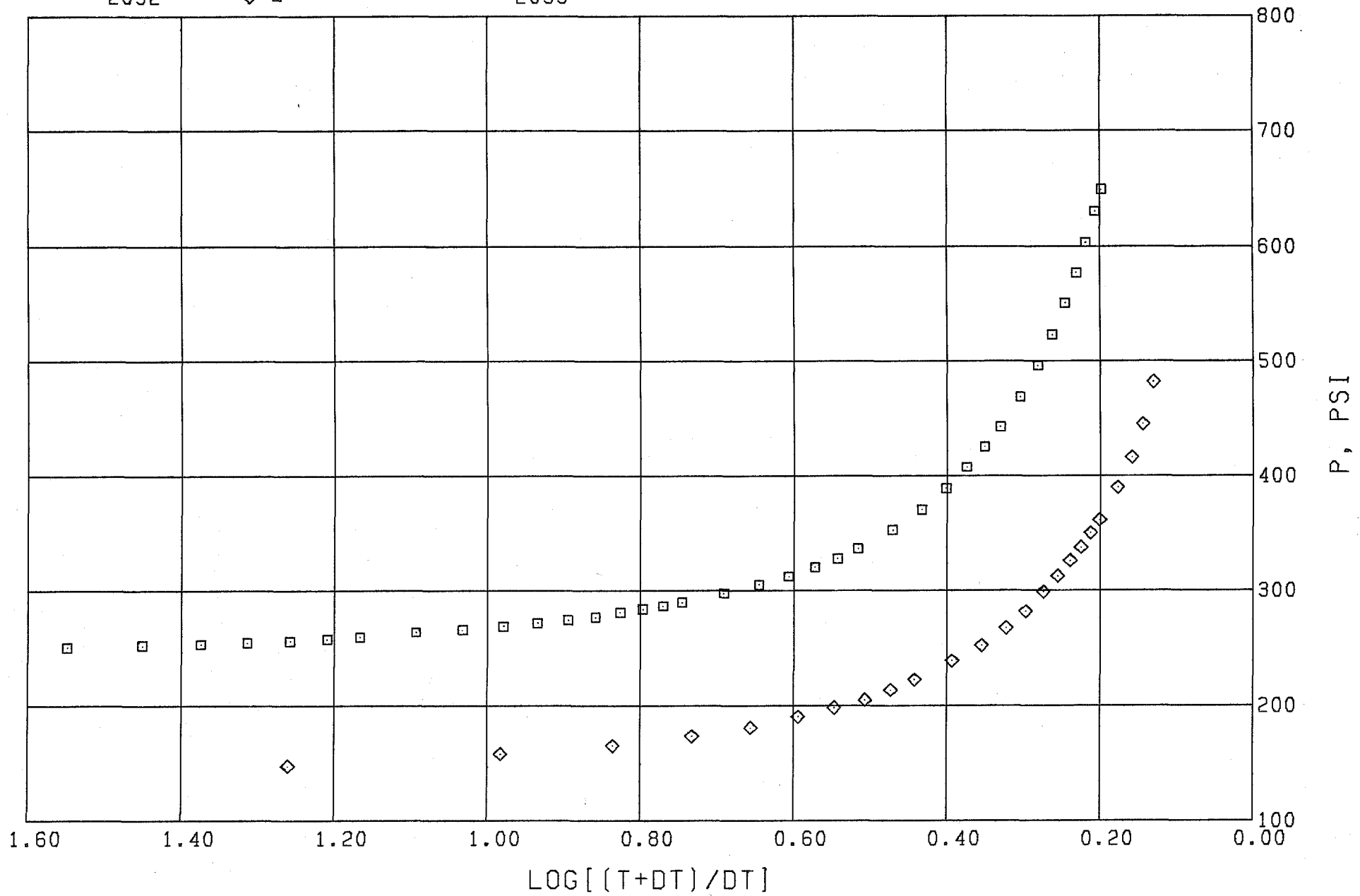
GAUGE NO CIP 1 2
2033 □ ◇



TICKET NO 23078000

GAUGE NO CIP 1 2
2032 ◇ □

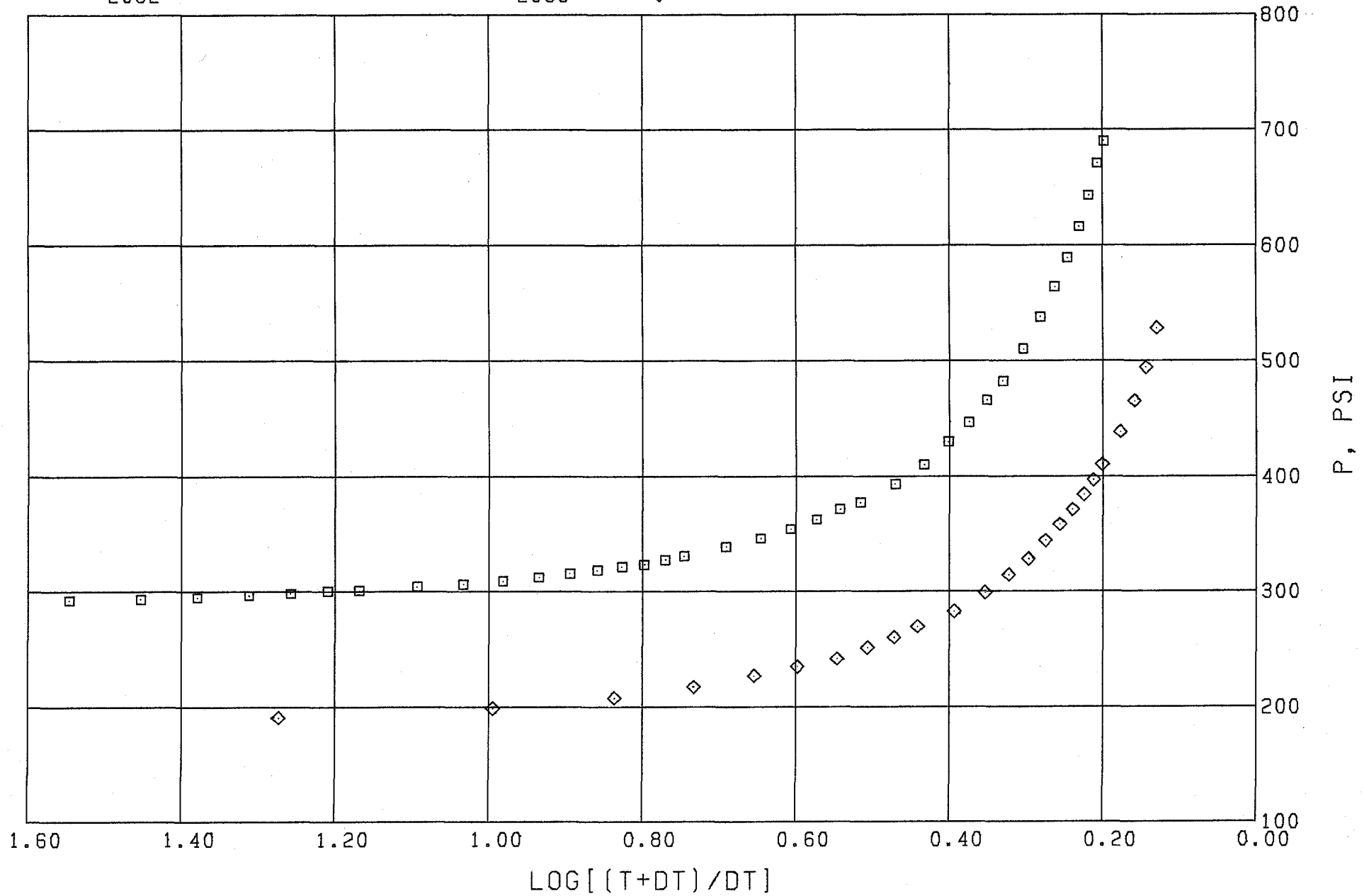
GAUGE NO CIP 1 2
2033 ◇ □



TICKET NO 23078000

GAUGE NO CIP 1 2
2032

GAUGE NO CIP 1 2
2033 \diamond \square





TICKET NO. 23078100

24-JUL-85

FARMINGTON

FORMATION TESTING SERVICE REPORT

SENTINEL PEAK		27-23	2	5729.0 - 5748.0	MOBIL OIL CORPORATION	
LEASE NAME		WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME	
LEGAL LOCATION SEC. - TWP. - RNG.	27 41S 26E	FIELD AREA	WILDCAT	COUNTY	SAN JUAN	STATE UTAH SM

230781 - 2032

GAUGE NO: 2032 DEPTH: 5708.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3204	3151.6			
B	INITIAL FIRST FLOW	53	41.4	15.0	15.1	F
C	FINAL FIRST FLOW	67	57.9			
C	INITIAL FIRST CLOSED-IN	67	57.9	45.0	46.8	C
D	FINAL FIRST CLOSED-IN	1944	1942.5			
E	INITIAL SECOND FLOW	67	84.3	90.0	88.9	F
F	FINAL SECOND FLOW	147	161.5			
F	INITIAL SECOND CLOSED-IN	147	161.5	184.0	183.1	C
G	FINAL SECOND CLOSED-IN	1944	1944.2			
H	FINAL HYDROSTATIC	3137	3121.8			

230781-2033

GAUGE NO: 2033 DEPTH: 5745.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3241	3179.3			
B	INITIAL FIRST FLOW	67	61.6	15.0	15.1	F
C	FINAL FIRST FLOW	80	66.9			
C	INITIAL FIRST CLOSED-IN	80	66.9	45.0	46.8	C
D	FINAL FIRST CLOSED-IN	1959	1956.5			
E	INITIAL SECOND FLOW	94	94.1	90.0	88.9	F
F	FINAL SECOND FLOW	174	171.6			
F	INITIAL SECOND CLOSED-IN	174	171.6	184.0	183.1	C
G	FINAL SECOND CLOSED-IN	1959	1953.2			
H	FINAL HYDROSTATIC	3161	3132.7			

EQUIPMENT & HOLE DATA

FORMATION TESTED: LOWER ISMAY
 NET PAY (ft): 3.0
 GROSS TESTED FOOTAGE: 19.0
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 8.750
 ELEVATION (ft): 4917.5 +14' KELLY BUSHING
 TOTAL DEPTH (ft): 5748.0
 PACKER DEPTH(S) (ft): 5723, 5729
 FINAL SURFACE CHOKE (in): _____
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 10.50
 MUD VISCOSITY (sec): 42
 ESTIMATED HOLE TEMP. (°F): _____
 ACTUAL HOLE TEMP. (°F): 142 @ 5744.0 ft

TICKET NUMBER: 23078100DATE: 7-16-85 TEST NO: 2TYPE DST: OPEN HOLEHALLIBURTON CAMP:
FARMINGTONTESTER: D.G. FOSTER

WITNESS: _____

DRILLING CONTRACTOR:
ENERGY SEARCH #1FLUID PROPERTIES FOR
RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
MUD PIT	<u>0.820 @ 94 °F</u>	<u>6100</u> ppm
TOP OF FILL IN D.P.	<u>0.900 @ 92 °F</u>	<u>5400</u> ppm
SAMPLER	<u>0.240 @ 80 °F</u>	<u>23000</u> ppm
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm

SAMPLER DATA

Pstg AT SURFACE: 120.0
 cu.ft. OF GAS: 0.050
 cc OF OIL: _____
 cc OF WATER: 2000.0
 cc OF MUD: _____
 TOTAL LIQUID cc: 2000.0

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ _____ °F
 GAS/OIL RATIO (cu.ft. per bbl): _____
 GAS GRAVITY: _____

CUSHION DATA

TYPE	AMOUNT	WEIGHT
DRILLING MUD-	_____	_____
(GALLON)	<u>5.0</u>	<u>10.50</u>

RECOVERED:

270 FEET OF OIL AND GAS CUT MUD

MEASURED FROM
TESTER VALVE

REMARKS:

THE REQUESTED CALCULATION SERVICE COULD NOT BE PERFORMED DUE TO INSUFFICIENT HYDROCARBON RECOVERY....FLOW RATE COULD NOT BE DETERMINED. PLOTS OF THE CLOSED IN PERIOD DATA ARE PROVIDED FOR YOUR INSPECTION.

TICKET NO: 23078100

CLOCK NO: 9756 HOUR: 24



HALLIBURTON

 SERVICES

GAUGE NO: 2032

DEPTH: 5708.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	41.4			
2	3.0	40.7	-0.7		
3	6.0	44.1	3.3		
4	9.0	49.0	4.9		
5	12.0	52.6	3.6		
C 6	15.1	57.9	5.3		
FIRST CLOSED-IN					
C 1	0.0	57.9			
2	1.0	88.5	30.5	1.0	1.199
3	2.0	118.7	60.8	1.8	0.925
4	3.0	148.2	90.3	2.5	0.781
5	4.0	190.1	132.2	3.1	0.683
6	5.0	236.1	178.2	3.7	0.608
7	6.0	286.0	228.0	4.3	0.547
8	7.0	362.3	304.3	4.8	0.500
9	8.0	441.5	383.5	5.2	0.463
10	9.0	554.6	496.7	5.7	0.428
11	10.0	693.7	635.7	6.0	0.399
12	12.0	1014.9	956.9	6.7	0.355
13	14.0	1504.0	1446.0	7.3	0.319
14	16.0	1869.9	1811.9	7.8	0.289
15	18.0	1925.5	1867.6	8.2	0.265
16	20.0	1934.7	1876.8	8.6	0.245
17	22.0	1938.1	1880.2	9.0	0.227
18	24.0	1940.1	1882.2	9.3	0.212
19	26.0	1940.6	1882.7	9.6	0.199
20	28.0	1940.9	1883.0	9.8	0.188
21	30.0	1940.9	1883.0	10.1	0.177
22	35.0	1942.1	1884.1	10.6	0.156
23	40.0	1942.6	1884.7	11.0	0.140
D 24	46.8	1942.5	1884.5	11.4	0.122
SECOND FLOW					
E 1	0.0	84.3			
2	15.0	87.7	3.3		
3	30.0	104.6	16.9		
4	45.0	119.8	15.2		
5	60.0	133.3	13.5		
6	75.0	147.1	13.9		
F 7	88.9	161.5	14.4		
SECOND CLOSED-IN					
F 1	0.0	161.5			
2	1.0	188.1	26.5	1.0	2.038
3	2.0	222.5	61.0	1.9	1.728

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
4	3.0	262.6	101.1	2.9	1.552
5	4.0	310.0	148.4	3.9	1.429
6	5.0	375.9	214.3	4.7	1.342
7	6.0	454.8	293.3	5.7	1.261
8	7.0	554.8	393.3	6.6	1.199
9	8.0	681.8	520.3	7.4	1.147
10	9.0	881.1	719.6	8.3	1.097
11	10.0	1065.9	904.4	9.2	1.056
12	12.0	1493.5	1331.9	10.7	0.987
13	14.0	1835.6	1674.1	12.3	0.927
14	16.0	1913.6	1752.1	13.9	0.876
15	18.0	1930.8	1769.2	15.4	0.831
16	20.0	1935.9	1774.4	16.8	0.792
17	22.0	1937.5	1775.9	18.1	0.759
18	24.0	1938.9	1777.4	19.5	0.727
19	26.0	1939.6	1778.0	20.8	0.700
20	28.0	1939.6	1778.0	22.1	0.674
21	30.0	1939.6	1778.0	23.3	0.650
22	35.0	1939.6	1778.0	26.2	0.599
23	40.0	1940.5	1779.0	28.9	0.557
24	45.0	1941.2	1779.6	31.4	0.520
25	50.0	1941.2	1779.6	33.8	0.489
26	55.0	1941.3	1779.7	36.0	0.461
27	60.0	1941.3	1779.7	38.0	0.437
28	70.0	1941.3	1779.7	41.9	0.395
29	80.0	1942.1	1780.5	45.2	0.362
30	90.0	1942.1	1780.5	48.3	0.334
31	100.0	1942.1	1780.5	51.0	0.310
32	110.0	1943.1	1781.6	53.5	0.289
33	120.0	1943.1	1781.6	55.7	0.271
34	135.0	1943.1	1781.6	58.8	0.248
35	150.0	1943.4	1781.8	61.4	0.229
36	165.0	1943.8	1782.2	63.8	0.212
G 37	183.1	1944.2	1782.6	66.4	0.195

REMARKS:

TICKET NO: 23078100

CLOCK NO: 7276 HOUR: 24



HALLIBURTON

 SERVICES
















GAUGE NO: 2033

DEPTH: 5745.0

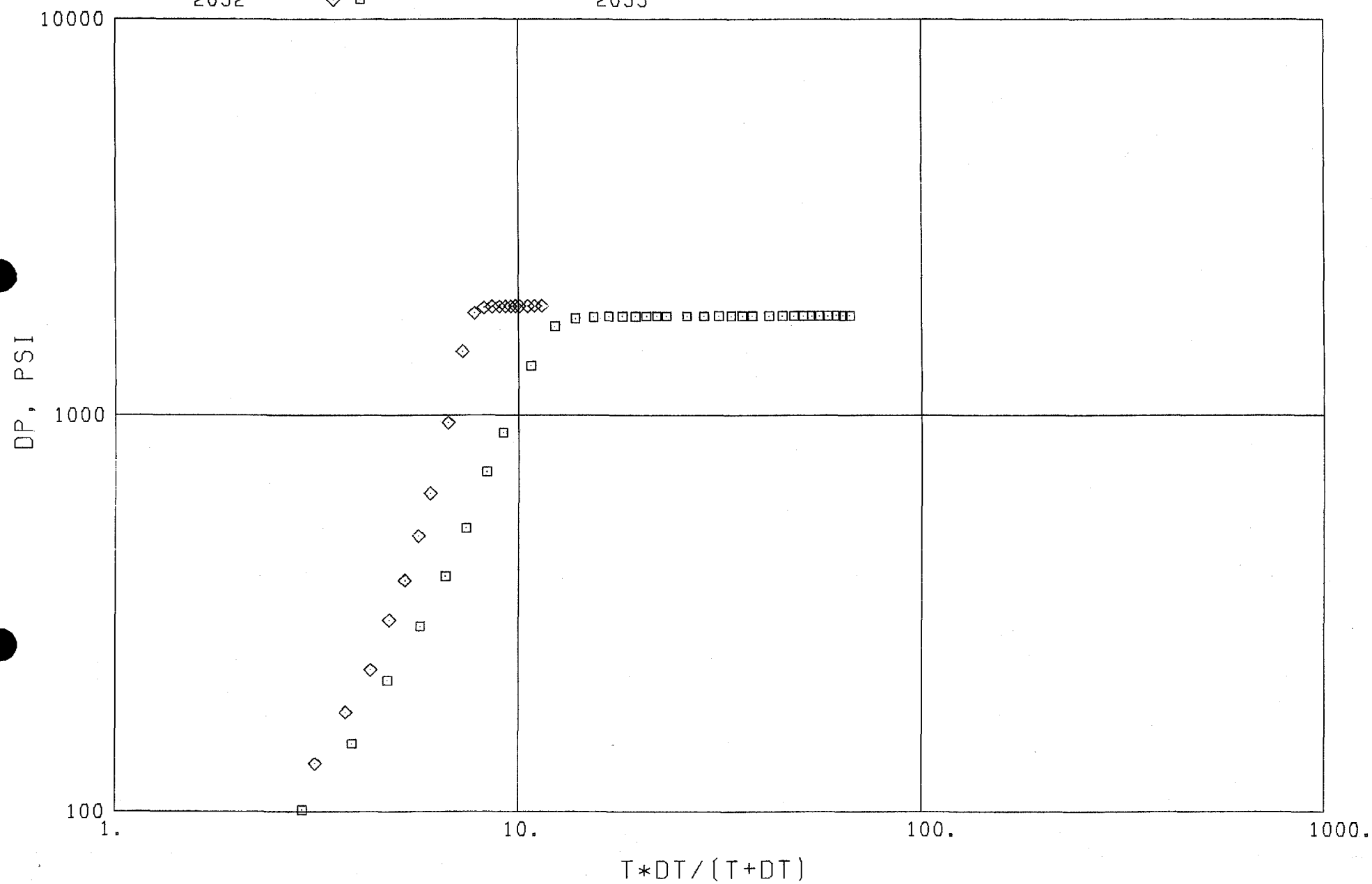
REF	MINUTES	PRESSURE	ΔP	$\frac{1 \times \Delta t}{1 + \Delta t}$	$\log \frac{1 + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	61.6			
2	3.0	56.9	-4.8		
3	6.0	56.9	0.0		
4	9.0	59.7	2.8		
5	12.0	63.2	3.5		
C 6	15.1	66.9	3.7		
FIRST CLOSED-IN					
C 1	0.0	66.9			
2	1.0	90.8	23.9	1.0	1.201
3	2.0	122.4	55.5	1.8	0.926
4	3.0	160.4	93.5	2.5	0.782
5	4.0	196.6	129.7	3.1	0.684
6	5.0	240.7	173.8	3.7	0.607
7	6.0	297.6	230.7	4.3	0.548
8	7.0	352.3	285.3	4.8	0.499
9	7.9	430.3	363.4	5.2	0.464
10	9.0	521.1	454.2	5.6	0.429
11	10.0	646.8	579.9	6.0	0.400
12	12.0	968.2	901.3	6.7	0.355
13	14.0	1313.3	1246.4	7.3	0.319
14	16.0	1746.5	1679.6	7.8	0.289
15	18.0	1910.7	1843.8	8.2	0.265
16	20.0	1943.0	1876.1	8.6	0.245
17	22.0	1951.2	1884.3	9.0	0.227
18	24.0	1953.9	1887.0	9.3	0.213
19	26.0	1954.5	1887.6	9.6	0.199
20	28.0	1955.3	1888.4	9.8	0.188
21	30.0	1956.0	1889.1	10.1	0.177
22	35.0	1956.1	1889.2	10.6	0.156
23	40.0	1956.1	1889.2	11.0	0.139
D 24	46.8	1956.5	1889.6	11.4	0.122
SECOND FLOW					
E 1	0.0	94.1			
2	15.0	100.1	6.0		
3	30.0	116.7	16.6		
4	45.0	132.1	15.4		
5	60.0	146.2	14.2		
6	75.0	159.6	13.4		
F 7	88.9	171.6	12.0		
SECOND CLOSED-IN					
F 1	0.0	171.6			
2	1.0	193.7	22.1	1.0	2.014
3	2.0	221.9	50.3	2.0	1.723

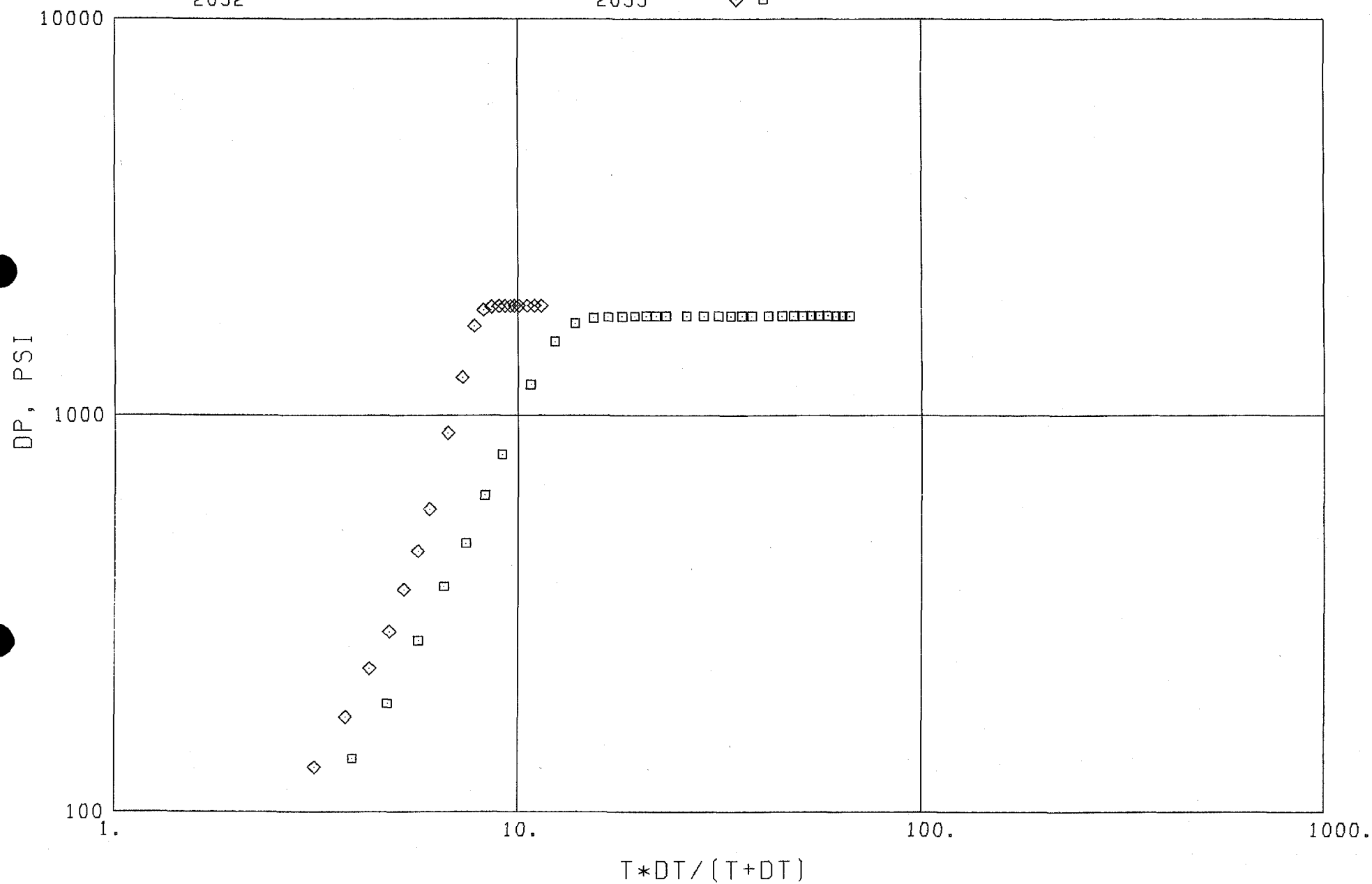
REF	MINUTES	PRESSURE	ΔP	$\frac{1 \times \Delta t}{1 + \Delta t}$	$\log \frac{1 + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
4	3.0	262.6	90.9	2.9	1.554
5	4.0	308.1	136.4	3.9	1.427
6	5.0	360.1	188.4	4.7	1.341
7	6.0	442.5	270.8	5.7	1.264
8	7.0	541.7	370.1	6.5	1.202
9	8.0	646.9	475.3	7.4	1.147
10	9.0	799.1	627.5	8.3	1.100
11	10.0	967.4	795.8	9.1	1.057
12	12.0	1367.9	1196.3	10.7	0.986
13	14.0	1705.0	1533.4	12.3	0.926
14	16.0	1879.3	1707.6	13.9	0.876
15	18.0	1933.3	1761.6	15.4	0.830
16	20.0	1943.4	1771.7	16.8	0.793
17	22.0	1948.0	1776.4	18.2	0.758
18	24.0	1949.9	1778.2	19.5	0.727
19	26.0	1951.2	1779.6	20.8	0.699
20	28.0	1951.5	1779.8	22.0	0.674
21	30.0	1952.0	1780.4	23.3	0.650
22	35.0	1952.4	1780.8	26.2	0.599
23	40.0	1952.6	1780.9	28.9	0.556
24	45.0	1953.0	1781.3	31.4	0.520
25	50.0	1953.2	1781.6	33.8	0.489
26	55.0	1953.2	1781.6	36.0	0.461
27	60.0	1953.2	1781.6	38.0	0.437
28	70.0	1953.2	1781.6	41.8	0.396
29	80.0	1953.2	1781.6	45.2	0.362
30	90.0	1953.2	1781.6	48.3	0.334
31	100.0	1953.2	1781.6	51.0	0.310
32	110.0	1953.4	1781.7	53.5	0.289
33	120.0	1953.4	1781.7	55.7	0.271
34	135.0	1953.4	1781.7	58.8	0.248
35	150.0	1953.2	1781.6	61.4	0.229
36	165.0	1953.2	1781.6	63.8	0.212
G 37	183.1	1953.2	1781.6	66.4	0.195

REMARKS:

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	5097.0	
3		DRILL COLLARS.....	6.250	2.750	566.0	
50		IMPACT REVERSING SUB.....	6.000	3.000	1.0	5663.0
51		PUMP OUT REVERSING SUB.....	6.000	3.000	1.0	5664.0
3		DRILL COLLARS.....	6.250	2.750	29.0	
5		CROSSOVER.....	6.000	3.000	1.0	
13		DUAL CIP SAMPLER.....	5.030	0.750	7.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	5706.0
80		AP RUNNING CASE.....	5.000	2.250	4.0	5708.0
15		JAR.....	5.030	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	7.750	1.530	6.0	5723.0
70		OPEN HOLE PACKER.....	7.750	1.530	6.0	5729.0
20		FLUSH JOINT ANCHOR.....	5.750	3.000	13.0	
81		BLANKED-OFF RUNNING CASE.....	5.750		4.0	5745.0
TOTAL DEPTH					5748.0	

EQUIPMENT DATA

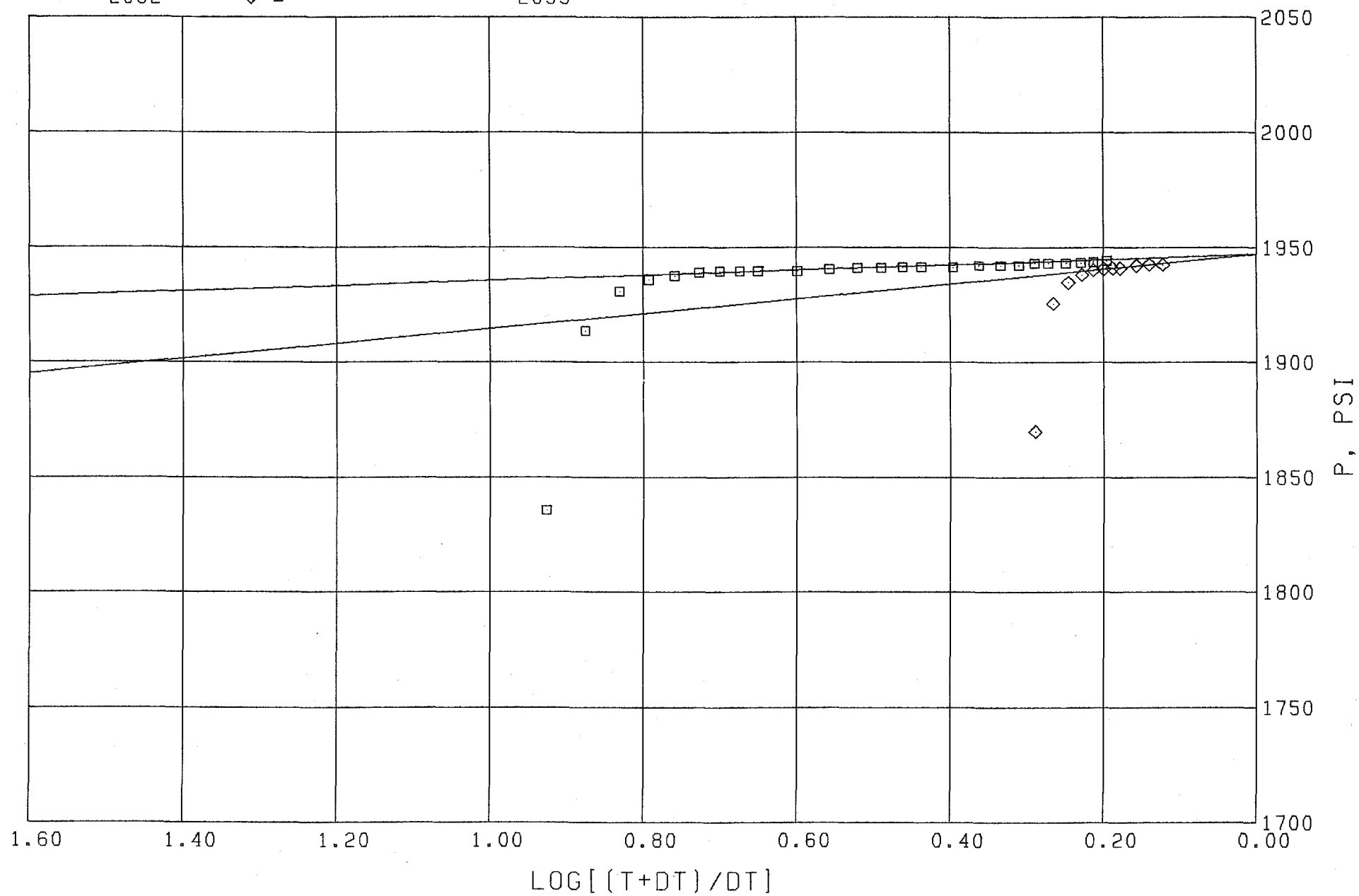
GAUGE NO CIP 1 2
2032 ◇ □GAUGE NO CIP 1 2
2033 ◇ □

GAUGE NO CIP 1 2
2032GAUGE NO CIP 1 2
2033 \diamond \square 

TICKET NO 23078100

GAUGE NO CIP 1 2
2032 ◇ □

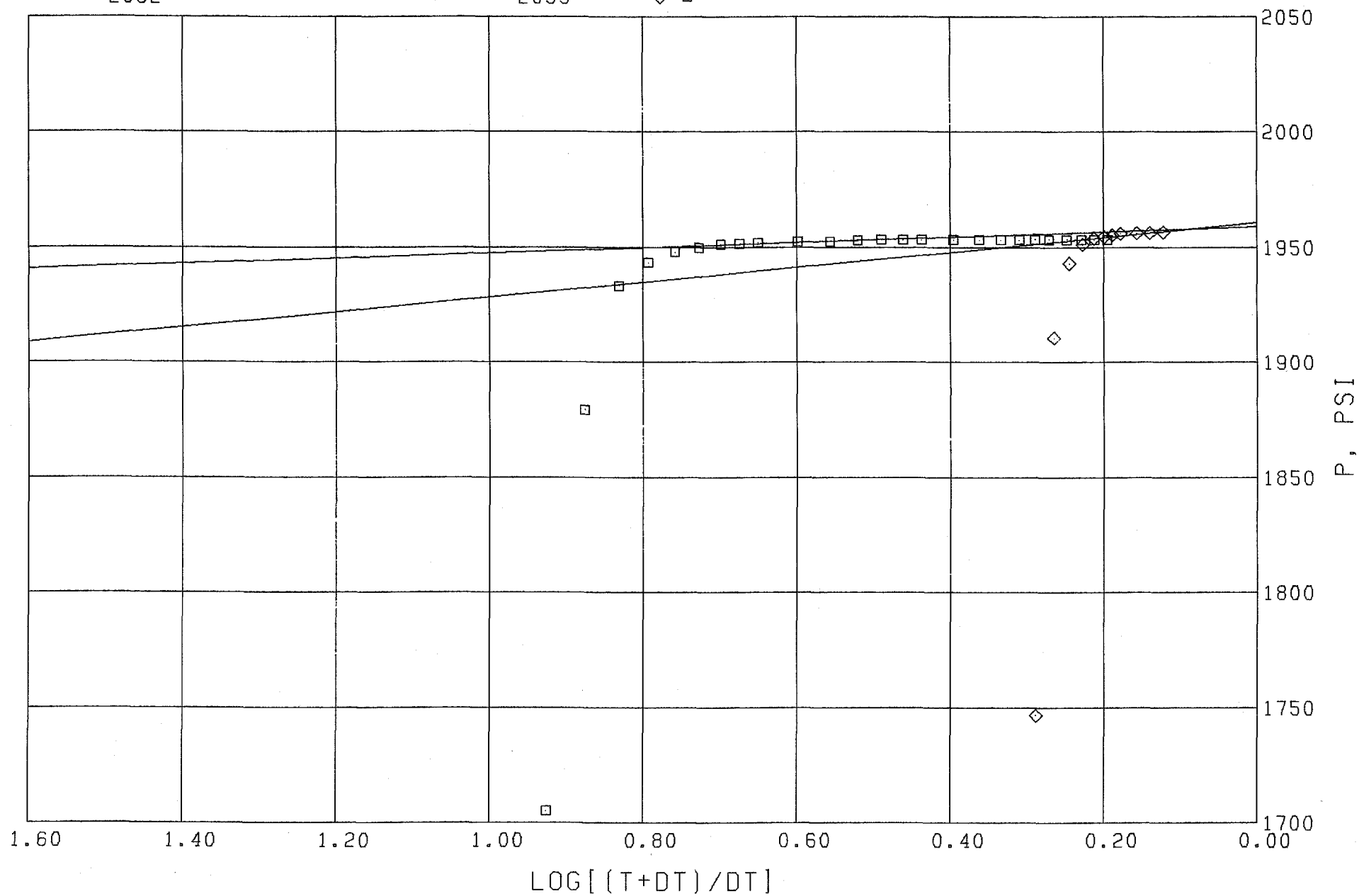
GAUGE NO CIP 1 2
2033 ◇ □



TICKET NO 23078100

GAUGE NO CIP 1 2
2032

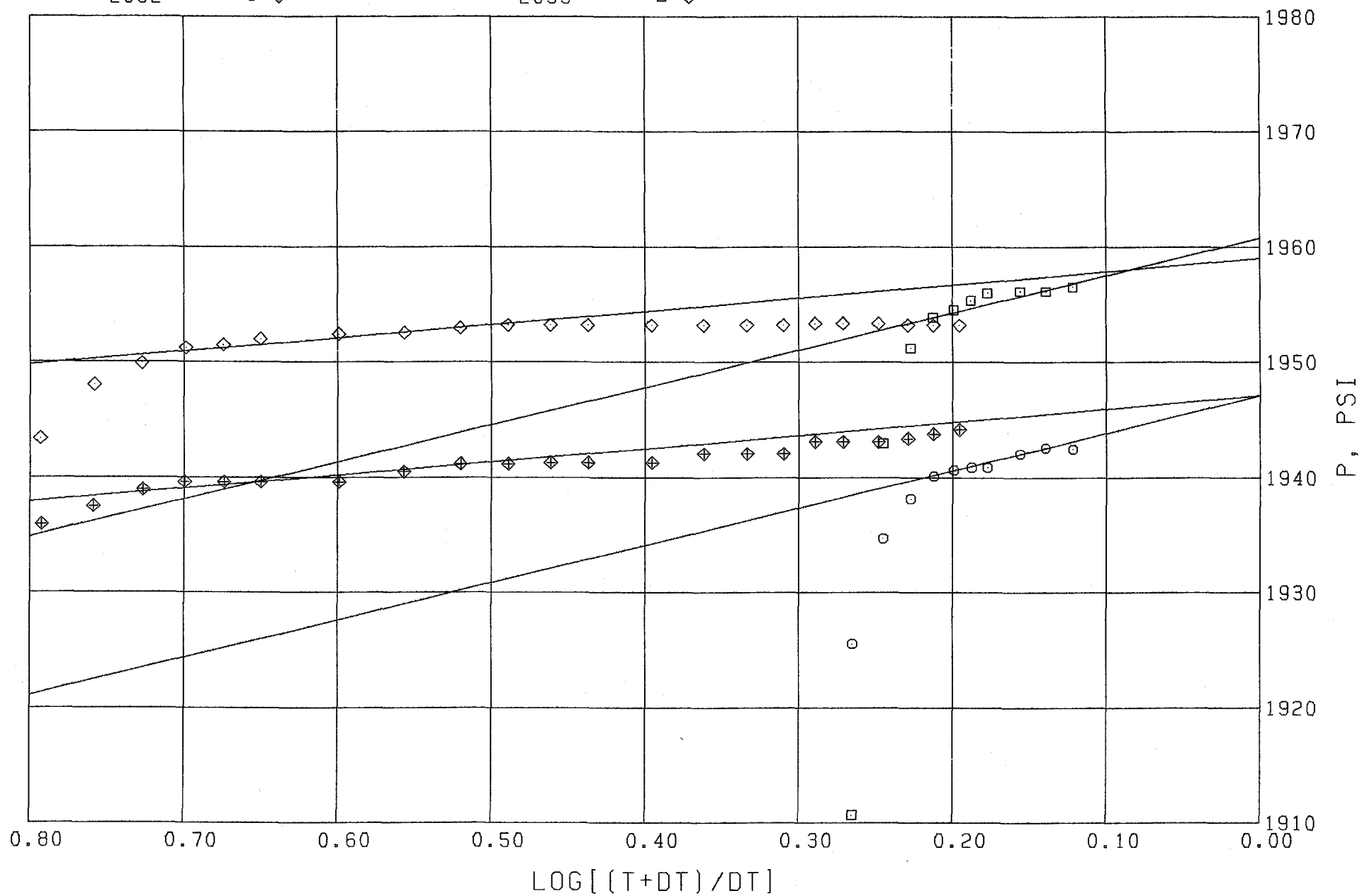
GAUGE NO CIP 1 2
2033 \diamond \square



TICKET NO 23078100

GAUGE NO CIP 1 2
2032 ○ ◆

GAUGE NO CIP 1 2
2033 □ ◆



SUMMARY OF RESERVOIR PARAMETERS

USING HORNER METHOD FOR LIQUID WELLS

OIL GRAVITY 0.0 °API@60°F WATER SALINITY 0.0 % SALT
 GAS GRAVITY 0.700 FLUID GRADIENT 0.4663 psi/ft
 GAS/OIL RATIO 0.0 SCF/STB FLUID PROPERTIES AT 1959.0 psig
 TEMPERATURE 142.0 °F VISCOSITY 0.000 cp
 NET PAY 3.0 ft FMT VOL FACTOR 0.000 Rvol/Svol
 POROSITY 10.0 % SYSTEM COMPRESSIBILITY 5.47 $\times 10^{-6}$ vol/vol/psi
 PIPE CAPACITY FACTORS _____ bbl/ft

GAUGE NUMBER	2032	2032	2033	2033			
GAUGE DEPTH	5708.0	5708.0	5745.0	5745.0			
FLOW AND CIP PERIOD	1	2	1	2			UNITS
FINAL FLOW PRESSURE P_f	57.9	161.5	66.9	171.6			psig
TOTAL FLOW TIME t	15.1	104.1	15.1	104.1			min
EXTRAPOLATED PRESSURE P^*	1947.1	1947.1	1960.8	1959.0			psig
ONE CYCLE PRESSURE	1914.6	1935.6	1928.4	1947.5			psig
PRODUCTION RATE Q							BPD
TRANSMISSIBILITY kh/μ							md-ft cp
FLOW CAPACITY kh							md-ft
PERMEABILITY k							md
SKIN FACTOR S							
DAMAGE RATIO DR							
POTENTIAL RATE Q_1							BPD
RADIUS OF INVESTIGATION r_t							ft

REMARKS:

NOTICE:

THESE CALCULATIONS ARE BASED UPON INFORMATION FURNISHED BY YOU AND TAKEN FROM DRILL STEM PRESSURE CHARTS, AND ARE FURNISHED TO YOU FOR YOUR INFORMATION. IN FURNISHING SUCH CALCULATIONS AND EVALUATIONS BASED THEREON, HALLIBURTON IS MERELY EXPRESSING ITS OPINION. YOU AGREE THAT HALLIBURTON MAKES NO WARRANTY EXPRESS OR IMPLIED AS TO THE ACCURACY OF SUCH CALCULATIONS OR OPINIONS, AND THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER DUE TO NEGLIGENCE OR OTHERWISE, IN CONNECTION WITH SUCH OPINIONS.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	5. LEASE DESIGNATION AND SERIAL NO. N00-C-14-5118
2. NAME OF OPERATOR Superior Oil Company/Mobil Oil Agent	6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
3. ADDRESS OF OPERATOR P.O. Box Drawer G, Cortez, CO 81321	7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2069 FSL 2123' FWL NESW Section 27	8. FARM OR LEASE NAME Sentinel Peak
14. PERMIT NO.	9. WELL NO. 27-23
15. ELEVATIONS (Show whether DF, RT, OR, etc.) Ungraded GL 4917.5	10. FIELD AND POOL, OR WILDCAT Sentinel Peak
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 27-T41S-R26E-S1M
	12. COUNTY OR PARISH San Juan
	13. STATE Utah

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANE

(Other)

(Other) Temporarily Abandon

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Open perforations: 5679'-85', 5688'-90', 5692'-95', 5698'-5702'

Perfs under CIBP: 5742'-47', 5764'-70'

Proposed: Temporarily abandon Upper Ismay (5679'-5702/OA). Well might be considered as a potential salt water disposal well into the Lower Ismay in the future.

Procedure: Set a CIBP at 5640'. Place 50' of cement on top. Circulate the casing with inhibited fresh water. Set a casing cap at the surface.

Verbal approvals:

- 1) Steve Mason, BLM in Farmington, NM at 8:20AM 8/29/85.
- 2) John Baza, Division of Oil, Gas & Mining, State of Utah in Salt Lake City, Utah at 8:30 AM 8/29/85.

Federal approval of this action
is required before commencing
operations.

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 9/4/85
BY: John R. Baza

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

Sr. Regulatory Engr. Advisor

DATE

9/4/85

G. N. Eggerman
(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED

SEP 09 1985

*See Instructions on Reverse Side



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

November 13, 1985

Superior Oil Company
P.O. Drawer G
Cortez, Colorado 81321

Gentlemen:

Re: Well No. Sentinel Peak 27-23 - Sec. 27, T. 41S., R. 26E.,
San Juan County, Utah - API #43-037-31144

A sundry notice dated September 4, 1985, on the above referenced well indicates that the well has been spudded; however, this office has not received proper notification of spudding as requested in the letter of approval to drill.

It is also necessary to file monthly drilling reports from the month of inception to completion.

Sincerely,

Pam Kenna
Well Records Specialist

Enclosure

cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File

0170S/41



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

April 4, 1986

Superior Oil Company
P O Drawer G
Cortez, Colorado 81321

Gentlemen:

Re: Well No. Sentinel Peak #27-23 - Sec. 27, T. 41S, R. 26E
San Juan County, Utah - API #43-037-31144

A records review indicates that no required reports for the referenced well have been filed since September 1985. Monthly drilling reports must be submitted to account for the time between spudding and well completion.

Rule 312 of the Oil and Gas Conservation General Rules requires that Form DOGM-3 "Well Completion or Recompletion Report and Log" or copy of the equivalent federal form, along with copies of logs and tests run, be filed with this office not later than 90 days after terminating drilling.

Please submit the required drilling reports and Well Completion Report, including copies of logs and tests which may have been run on the referenced well, not later than April 27, 1986. Address the required response to:

Utah Division of Oil, Gas and Mining
Attention: Suspense File - Norm Stout
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Respectfully,

Norman C. Stout
Records Manager

ta

cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
Well File
Suspense File

0385S/9

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUP.

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____
1b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REENT. ☐ Other _____

2. NAME OF OPERATOR
Mobil Oil Corporation Agent for The Superior Oil Company

3. ADDRESS OF OPERATOR
P. O. Box 5444; Denver, CO 80217

4. LOCATION OF WELL (Report location clearly and in accordance with any State or Federal requirements)
At surface
2069' FSL & 2123' FWL of sec. 27-41S-26E
At top prod. interval reported below
Same
At total depth
Same

14. PERMIT NO. _____
DIVISION OF OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.

N00-C-14-5118

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Sentinel Peak

9. WELL NO.

27-23

10. FIELD AND POOL, OR WILDCAT

Greater Aneth

11. SEC. T. R., M., OR BLOCK AND SURVEY OR AREA

Sec. 27-41S-26E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

15. DATE SPUDDED 7-2-85 16. DATE T.D. REACHED 7-17-85 17. DATE COMPL. (Ready to prod.) TA 8-31-85 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* GL 4917.5 4930 KB 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 5957 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL. HOW MANY* 23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS XX

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN DIL/SFL/GR/SP, PAC/CNL/GR, B4C Sonir-GR GR-CBL-CCL-VOL EP sample 27. WAS WELL CORED DST

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36# K55	1620	12 1/4"	613 light B	
7"	23# K55	5957	8-3/4"	600 sx class B	

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	5880	

31. PREPARATION RECORD (Interval, size and number)

5742-5747 4 HPF 5698-5702 2 SPF
5764-5770 2 JSPF
5679-5685 2 SPF
5688-5690 2 SPF
5692-5695 2 SPF

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5742-5747	Acidize w/6 bbls 28% HCL- Displac
	w/ 29 bbl SW
5764-5770	Squeezed w/980 bbl polymer

33. PRODUCTION

DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or shut-in) OPS

DATE OF TEST HOURS TESTED CHOKER SIZE PROD'N. FOR TEST PERIOD OIL—BBL. GAS—MCF. WATER—BBL. GAS-OIL RATIO

FLOW, TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY

35. LIST OF ATTACHMENTS 2 DST

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED 9 Dawson TITLE Producing Accounting Supv. DATE 9-10-85

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Chinle	1618					
beChelly	2848					
Organ Rock	2993					
Hermosa	4742					
Over Ismay	5642					
Hozen Weep	5722					
Lower Ismap	5730					
Gothic Shale	5795					
Desert Creek	5838					
Chimney Rock	5925					

MOBIL DAILY DRILLING REPORT

29-23 MOBIL DAILY DRILLING REPORT
WELL Scottish Port Rig Energy Service #1 DAYS FROM SPUD 19 DATE 2/20/85
DEPTH 5957 PROGRESS — DRILL TIME — REPORT NO. 19
CASING 9 7/8" - 1620 - 7" 5957 SHOE TEST 16" E.M.W. BORE 2/5/85
STATUS Rig Release @ 1400 on 2/20/85 INFORMATION

MUD:
TIME
WT.
FUN'L VIS
PV/VP
GELS @ 10
API WL
HT WL
pH
OIL %
SOLIDS %
SAND %
CL PPM
FLT
VEL NOZ
ANN VEL:

BITS: 7
 NO.
 SIZE
 MAKE
 TYPE 27
 JETS
 BIT WT 31
 RPM
 PMP PRESS
 PMP STKS
 GPM
 HOURS RUN
 FOOTAGE
 DEPTH OUT
 CONDITION
 SER. NO.

7th CS9 AS Run in hope

SURVEYS

DEPTH DEPTH DIR

	1.00	George Knicker	31
	14.47	1st. 7:25 K.T.	
	1.30	George Knicker	
27	01.20	1st. 7:25 K.T.	
	2.80	George Knicker	
32	23.47	22nd. 7:25 K.T.	
ESS	974.74	Total T.T.	13
IS			
UN			
E			
OUT			
ON			

174C-25

MATERIAL USED

3. Feet RB

GAS:
EG
TRP

BOTTOM HOLE ASSEMBLY:

DAILY MUD COST 0
TOTAL 57.019

COSTS:
DAILY 502.620
TOTAL 312.273

START	END	CODE	REMARKS
-------	-----	------	---------

0500	0530	12	Finish Running 7" 23" CS9.
0530	0700	05	Rig up B.J. cut Head + Circ. Hole Chisel
0700	0815	12	Cut 1st Stage - B.J. Pull 30 BBL mud sweep ahead of 425 ss or 501 cu ft. (LBS) (B) cut. to 5% FL-19 + .3% R-5 - slurry wt. 15.6" max P.P 1000" Rate 6 BBL
			Run Plug at 2000" D.K. at P. Time 1 hr 5 min 36
			Comp @ 0815 - Disp. cut. w/ 107 BBL w/ + 12 BBL mud.
0815	0845	05	Drop opening Bore + circ. Hole Chisel.
0845	1015	12	Cut 2nd Stage - Pull 20 BBL Fr. WTC. + head of 175 ss or 322 cu ft. B.J. cut cut. slurry wt. 12.7" max P.P 800 - Rate 6 BBL - Run Plug at Fr. WTC. 126 BBL w/ 2500" + close D.V. Tool - D.K. max P Time 30 min. Job comp @ 1015.
1015	1400	14	Wipe down + Pick up B.D.P. Landed 7" CS9 w/ 7000" on a 622-16 X 7" CS9. Hanger - cut off 7" CS9. Remove cut off + B.D.P. Welded to photo on top 7" CS9. Clean out mud B.T. - Pick up Co. Rental Equipment.

Final Report

PHONE 801-253-2821 SUPERVISOR GAGNEUX

27-23 MOBIL DAILY DRILLING REPORT
 WELL SOUTHWICK PARK RIG Energy Ranch #1 DAYS FROM SPUD 18 DATE 2/22/85
 DEPTH 5957 PROGRESS — DRILL TIME — REPORT NO. 17
 CASING 9 1/2" C1620 SHOE TEST 16" E.M.W. BOE 2/5/85
 STATUS RUNNING 7-23" CS9. FORMATION Net Creek

MUD:
 TIME
 WT.
 FUN'L VIS
 PV/YP
 GELS @ 10
 API WL
 HT WL
 PH
 OIL %
 SOLIDS %
 SAND %
 CL PPM
 FLT
 VEL NOZ
 ANN VEL: DC

1900	
10.9	
45	
14/18	
9/20	
10.9	
—	
11.5	
—	
9.8	BAE 5.8
92	AC 4
7000	
99	

BITS:
 NO.
 SIZE
 MAKE
 TYPE
 JETS
 BIT WT
 RPM
 PMP PRESS
 PMP STKS
 GPM
 HOURS RUN
 FOOTAGE
 DEPTH OUT
 CONDITION
 SER. NO.

786	
8 1/4	
Reed	
4P53	
11-11-B	
—	
—	
1000	
85	
272	
—	
—	
5957	
13-89T	
123218	Reed

SURVEYS:

DEPTH	REV.	DIR.
5957	2	

MATERIAL USAGE:

40	BAR

GAS:

BG
 TRP
 CONN

BOTTOM HOLE ASSEMBLY:

START END CODE

REMARKS

0500 1315 11 Finish Running Submergence Logs - 2 Run
 DJFL - Sonic - G.R. - S.P. - Caliper From 5955 - 1621
 ① CNL - LAT - G.R. - Caliper From 5955 - 4648
 ② EPT - Microlog - Cyber Log From 5955 - 4700
 1315 1330 07 Sec. Rig. ✓ B.O.P.
 1330 1600 06 T.I.H. (No Fill)
 1600 1900 05 Circ. & Core mud to Run 7" as per
 1900 2330 06 mix & slug D.P. T.O.H. lay down 1" D.P. + D.C.
 made all breaks on Kelly
 2330 0030 12 Rig up four states CS9. Tools. & Sec. Rig.
 0030 0500 12 Running 7-23" KSS - LT + C - live SPUR CS9.
 HAVE 118 JT RAN - Like 15 JT MORE

DAILY MUD COST 263
 TOTAL 17,089

COSTS:
 DAILY 23,169
 TOTAL 257,673

MOBI DAILY DRILLING REPORT

27-23
 WELL Sentinel Peak NG Energy Search #1 DAYS FROM SPUD 17 DATE 7/19/85
 DEPTH 5957 PROGRESS 136' DRILL TIME 13hr REPORT NO. 17
 CASING 2 7/8" E1620 SHOE TEST 16" E.M.W. BOP 7/5/85
 STATUS Schlumberger Running log FORMATION Permian
Chinle Rock.

MUD:
 TIME
 WT.
 FUEL VIB
 PV/VP
 GELS #/10
 API WL
 HT WL
 BH
 OIL %
 SOLIDS %
 SAND %
 CL PPM
 FLT
 VEL NOZ
 ANN VEL: DC

1900	
10.8	
4.9	
16-28	
12-29	
10.8	
—	
12	
—	
10	11.6
1/2	1.5
1900	
10.5	

BITS:
 NO.
 SIZE
 MAKE
 TYPE
 JETS
 BIT WT
 RPM
 PMP PRESS
 PMP STCS
 GPM
 HOURS RUN
 FOOTAGE
 DEPTH OUT
 CONDITION
 SER. NO.

7 RR	
8 3/4	
Reed	
HL53	
11-12-B	
50	
15-70	
2000	
78	
268	
18 3/4	
309	
5957	
15-14-T	
523268 (Rund)	

SURVEYS:

DEPTH	DEV.	DRL
5957	1/2"	

MATERIAL USAGE:

10 - Naipac
 10 - CAUSTIC
 3 - Soda ash

DAILY MUD COST 1752
 TOTAL 16,826

COSTS:
 DAILY 8331
 TOTAL 234,504

GAE
 BG
 TRP
 CORR

BOTTOM HOLE ASSEMBLY:

BIT-B.S.-S.S.-3-7" AC-T.R.S.-3-7" AC
 1 1/2" K-4" AC-Drill Pipe-T.R.-3-6 1/2" AC
 R.H.M. 799.63 WT. 62000+

START	END	CODE	REMARKS
0500	1030	02	Drill - 5821 - 5879
1030	1100	07	See Rig - check B.O.P.
1100	1830	02	Drill - 5879 - 5957 T.D.
1830	1995	05	Circ. samples
1945	2030	06	Made 10th short trip O.K.
2030	2230	05	Circ. + Cond mud For Running Logs.
2230	0200	06	T.O.H. Log down BIT-B.S.-S.S. + T.R.S.
0200	0500	11	Rig up Schlumberger New Running D.I.F.L. Sonic - G.R.-S.P. - Caliper

Logger Depth 5953

MOBIL DAILY DRILLING REPORT

29-23 MOBIL DAILY DRILLING REPORT
WELL Sentinel Park High Energy Search #1 DAYS FROM SPUD 16 DATE 7/18/85
DEPTH 5821 PROGRESS 73' DRILL TIME 5 3/4 REPORT NO. 16
CASING 5 7/8 @ 1620 SHOE TEST 16" P.M.W. BOP 7/5/85
STATUS Drilling FORMATION Lower Triassic - Gelfing

MUD:
TIME
WT.
FUNDL VIS
PV/YF
GELS 6/10
API WL
HT WL
pH
OIL %
SOLIDS %
SAND %
CL PPM
FLT
VEL NOZ_
ANN VEL:

0130	
18.6	
44	
12-26	
18-29	
9.8	
—	
11.5	
—	
9	Box 6
1/2	N.S. 3
5200	
28	

BITS
 NO.
 SIZE
 MAKE
 TYPE
 JETS
 BIT WT
 RPM
 PMP PRESS
 PMP STKS
 GPM
 HOURS RUN
 FOOTAGE
 DEPTH OUT
 CONDITION
 SER. NO.

7.5.10	
8 3/4	
Reed	
HP 53	
11-12-8	
50	
65	
2000	
78	
268	
5 3/4	
73	
INC	
INC	
533248 Reed	

SURVEYS

DEPTH	DEV.	DIR.

MATERIAL USAGE:

40 - BAR

GAS: 32 unit
 BG: 784 unit
 TRP: 784 unit
 CONN: 784 unit

BOTTOM HOLE ASSEMBLY:
Bit - A.S. - S.S. - 3-7" D.C. - I.R.C. - 3-7" D.C.
1/2" Dia. D.C. - Drilling Jar - 3-6 1/4" D.C.
B. Hole 799.63 wt. 63.000 lb

DAILY MUD COST 263
TOTAL 15,074

COSTS:
DAILY 12,064
TOTAL 226,173

START	END	CODE	REMARKS	TOTAL
0500	0545	06	Finish T.D.H. w/ R.R. Bit No 6	226, 173
0545	0715	06	Pick up Test Tool & sea Rig.	
0715	0945	06	T.D.H. w/ Halliburton Test Tool For D.S.T	
			No 2 upper Lower Ismay	
0945	1000	16	Pick up 55 ft. From Rack & Hook up Halliburton main field.	
1000	1600	16	D.S.T. No 1 Lower Ismay	
1600	1830	06	Pull P.K.s a loose - Take H. Recover 270' Oil & Gas cut mud	
1830	2045	16	Break down & Load out Test Tool.	
2045	2315	06	T.D.H. (No Fill now after)	
2315	0500	02	Daily - 5748 - 5821	

Check For ANOTHER Page
Test sheet

PHONE 801-257-2026 SUPERVISOR GAGNEUX

MOBIL DAILY DRILLING REPORT

27-23
 WELL Scoutinok Peak RIG Energy Search #1 DAYS FROM SPUD 15 DATE 7/17/85
 DEPTH 5748 PROGRESS 32' DRILL TIME 2 3/4 REPORT NO. 15
 CASING 95 @ 1620 SHOE TEST 16" E.M.W. BOP 7/5/85
 STATUS T.O.H. TO Run D.S.T No 2 FORMATION Lower Ismay

MUD:
 TIME
 WT.
 FUN'L VIS
 PV/YP
 GELS 0/10
 API WL
 HT WL
 PH
 OIL %
 SOLIDS %
 SAND %
 CL PPM
 FLT
 VEL NOZ
 ANN VEL: DC
 239

0200	
10.54	
42	
12/18	
16/28	
10.1	
12	
9.0	Bar 6
1/2	D.S. 3
5600	
103	

BITS:
 NO.
 SIZE
 MAKE
 TYPE
 JETS
 BIT WT
 RPM
 PMP PRESS
 PMP STKS
 GPM
 HOURS RUN
 FOOTAGE
 DEPTH OUT
 CONDITION
 SER. NO.

16 R.R.		
944		
Rec'd		
H.P. 53		
11-12-B		
52		
65		
2000		
78		
268		
2 3/4		
32		
5748		
123248	Re-run	

SURVEYS:		
DEPTH	DEV.	DIR.

MATERIAL USAGE:
 40 - Bar

DAILY MUD COST 263
 TOTAL 14,811
 COSTS:
 DAILY 9869
 TOTAL 214,109

GAS:
 BG 20 unit
 TRP 3200 unit
 CONN Bar 16-112

BOTTOM HOLE ASSEMBLY:
 Bit-B.S.-55-3-7"D.C.-I.B.S.-
 3-7"D.C.-18-6 1/4"D.C.-
 B.H.A. 735.22 WT. 89,000

START	END	CODE	REMARKS
0500	1200	16	Finish D.S.T. No 1 - upper Ismay
1200	1445	06	Pull Packers & Lease - T.O.H. w/ RPT 1370 D.C.
1445	1530	05	Drop Bar & Reverse out. Recover 480' Gas & Oil cut and
1530	1600	06	Finish T.O.H.
1600	1630	16	Run down test tool.
1630	1915	06	T.I.H. w/ Re-run Bit No 6
1915	2200	02	Only - 5716 TO 5748
2200	2330	05	Circ. samples up.
2330	0030	06	Made 10 std short trip O.K.
0030	0230	05	Circ. For D.S.T. No 2
0230	0500	06	Mix & Pump slug. T.O.H. (like D.C. being out)
			check For another Pa Pe
			TEST shoot
			Only Break @ 5745 - 5 1/2 TO 3 1/2 min P/ET.

PHONE 801-259-2026 SUPERVISOR GAGNEUX

MOBIL DAILY DRILLING REPORT

WELL 27-23 Trail Peak RIG Energy Service #1 DAYS FROM SPUD. 14 DATE 7/16/85
 DEPTH 5716 PROGRESS 103' DRILL TIME 8 1/2 REPORT NO. 14
 CASING 9 5/8 @ 1620 SHOE TEST 16" E.M.W. BOP 7-5-85
 STATUS D.S.T. No 1 - upper Ismay FORMATION upper Ismay

MUD:
 TIME 2900
 WT. 10.5
 FUN'L VIS 41
 PV/YP 12/20
 GELS @ 10 16/20
 API WL 10.3
 HT WL —
 PH 12
 OIL % —
 SOLIDS % 9.0 9.4
 SAND % 1/2 4.5
 CL PPM 5000
 FLT 107
 VEL NOZ 425 IF 621
 ANN VEL: DC 176 DP 117

BITS: 4375
 NO. 5
 SIZE 8 7/8
 MAKE Sec.
 TYPE SRLP
 JETS H-12-B
 BIT WT 50/55
 RPM 70
 PMP PRESS 2000
 PMP STKS 78
 GPM 268
 HOURS RUN 83
 FOOTAGE 841
 DEPTH OUT 5716
 CONDITION 12-85
 SER. NO. 420868

SURVEYS:
 DEPTH 5716 DEV. 3/4" DIR. —

MATERIAL USAGE:
40 --- Bar
2 --- Drupac
8 --- cuttie

GAS: 239
 BG 16 unit
 TRP 92 unit
 COMB 240 unit
 BOTTOM HOLE ASSEMBLY:
84" Halliburton Hydro Spring
Test Tool + 19-1/4" D.C.
B.H.R. 250.63 WT. 43,000

DAILY MUD COST 738
 TOTAL 14,548
 COSTS:
 DAILY 13,097
 TOTAL 204,240

START	END	CODE	REMARKS
0500	1000	02	Delg. 5613-5662
1000	1030	07	Sec. Rig
1030	1400	02	Delg. - 5662-5716
1400	1530	05	Circ. & con. mud.
1530	1715	06	mix & pump slug - made a 20 ft skirt Trip O.K.
1715	2000	05	Circ. hole Choral
2000	2030	05	mix & pump slug - Drop survey
2030	2400	06	T.D.H.
2400	0130		Pick up Halliburton Hydro Spring Test Tool
			3/4" botm choke - 2-PKs - To test upper Ismay
0130	0400	04	T.D.H. For D.S.T. No 1 upper Ismay
0400	0430	16	Pick up 6 3/4" From Pipe Rack & Hook up
			Halliburton manifold
0430	0500	16	D.S.T. No 1 upper Ismay 5638 to 5716-78'
			Pick up Televiewer - @ Aspen Air way
			(Chart buoyage depth)
			Aspen Flight No 38 - 7/15/85 @ Noon

WELL Santonel peak - RIG 1-15856 SEARCH # 1 DAYS FROM SPUD 13 DATE 7-15-85

DEPTH 5613 PROGRESS 213 DRILL TIME 22 3/4 REPORT NO. 13

CASINO 954X1620 SHOE TEST 16th F.M.V. BOP 2-5-85

STATUS DRG FORMATION HEMIC-1

7500.	
10.6	
41	
12-16	
15-24	
10	
--	
11.0	
--	
9.2	BAR-6
1/2	DS-3.1
5000	
107	

NO.
SIZE
MAKE
TYPE
JETS
BPT WT
RPM
PMP PRESS
PMP STKS
GPM
HOURS RUN
FOOTAGE
DEPTH OUT
CONDITION
SER. NO.

415.75

5		
83/4		
5cc		
586F		
11-12-B		
50/55		
70		
2000		
78		
268		
74 1/4		
738		
-		
-		
420868		

DEPTH	DEV.	DIR.
5407	1/2	

MATERIAL USAGE:

- 30 - EAR
- 9 - WEISBERG
- 7 - CRUSTIC
- 1 - VC polymer

VEL NOZ. 425 H.F. 627
ANN VEL: DC 126 DP 117

BG 7

100

CONF 7

COUNT	START	END	COD
1	1	2	1
2	3	4	2
3	5	6	3
4	7	8	4
5	9	10	5
6	11	12	6
7	13	14	7
8	15	16	8
9	17	18	9
10	19	20	10
11	21	22	11
12	23	24	12
13	25	26	13
14	27	28	14
15	29	30	15
16	31	32	16
17	33	34	17
18	35	36	18
19	37	38	19
20	39	40	20
21	41	42	21
22	43	44	22
23	45	46	23
24	47	48	24
25	49	50	25
26	51	52	26
27	53	54	27
28	55	56	28
29	57	58	29
30	59	60	30
31	61	62	31
32	63	64	32
33	65	66	33
34	67	68	34
35	69	70	35
36	71	72	36
37	73	74	37
38	75	76	38
39	77	78	39
40	79	80	40
41	81	82	41
42	83	84	42
43	85	86	43
44	87	88	44
45	89	90	45
46	91	92	46
47	93	94	47
48	95	96	48
49	97	98	49
50	99	100	50

START	END	CWD
1500	1600	0.00
1600	1700	0.00
1700	1800	0.00
1800	1900	0.00
1900	2000	0.00
2000	2100	0.00
2100	2200	0.00
2200	2300	0.00
2300	2400	0.00
2400	2500	0.00
2500	2600	0.00
2600	2700	0.00
2700	2800	0.00
2800	2900	0.00
2900	3000	0.00
3000	3100	0.00
3100	3200	0.00
3200	3300	0.00
3300	3400	0.00
3400	3500	0.00
3500	3600	0.00
3600	3700	0.00
3700	3800	0.00
3800	3900	0.00
3900	4000	0.00
4000	4100	0.00
4100	4200	0.00
4200	4300	0.00
4300	4400	0.00
4400	4500	0.00
4500	4600	0.00
4600	4700	0.00
4700	4800	0.00
4800	4900	0.00
4900	5000	0.00
5000	5100	0.00
5100	5200	0.00
5200	5300	0.00
5300	5400	0.00
5400	5500	0.00
5500	5600	0.00
5600	5700	0.00
5700	5800	0.00
5800	5900	0.00
5900	6000	0.00
6000	6100	0.00
6100	6200	0.00
6200	6300	0.00
6300	6400	0.00
6400	6500	0.00
6500	6600	0.00
6600	6700	0.00
6700	6800	0.00
6800	6900	0.00
6900	7000	0.00
7000	7100	0.00
7100	7200	0.00
7200	7300	0.00
7300	7400	0.00
7400	7500	0.00
7500	7600	0.00
7600	7700	0.00
7700	7800	0.00
7800	7900	0.00
7900	8000	0.00
8000	8100	0.00
8100	8200	0.00
8200	8300	0.00
8300	8400	0.00
8400	8500	0.00
8500	8600	0.00
8600	8700	0.00
8700	8800	0.00
8800	8900	0.00
8900	9000	0.00
9000	9100	0.00
9100	9200	0.00
9200	9300	0.00
9300	9400	0.00
9400	9500	0.00
9500	9600	0.00
9600	9700	0.00
9700	9800	0.00
9800	9900	0.00
9900	10000	0.00

BOTTOM HOLE ASSEMBLY:

~~SECRET~~ CS-SS- 5-7" A1 28-3-7A

1967-68

PRR-166,013 10/16/2008

REMARKS:

START	END	TIME	REMARKS
0500	0630	02	Dlg. 5400-5417
0630	0700	10	Snapy - 5407-1/2
0700	1030	02	Dlg. 5417-5447
1030	1100	07	Kig. Ser. - X Proj's
1100	2100	02	Dlg. 5447-5540
2100	2115	07	Kig. Ser.
2115	2400	02	Dlg. 5540-5565
2400	0500	02	Dlg. 5565-5613

DAILY MUD COST: 1242

TOTAL 15 870

COSTS:

DAILY: 7924

TOTAL 191143

MOBIL DAILY DRILLING REPORT

27-23 WELL Sentinel Jack RIG Ensign Search #1 DAYS FROM SPUD 12 DATE 7-14-85

DEPTH 5400 PROGRESS 237 DRILL TIME 23 1/2 REPORT NO. 12

CASING 9 5/8 X 16.20 SHOE TEST 16" ENH BOP 7-5-85

STATUS Drlg FORMATION Hy. prod. -
Rm, sh, sh

MUD:
TIME
WT.
FUEL VIS
PV/YP
GELS 0/10
API WL
HT WL
pH
OIL %
SOLIDS %
SAND %
CL PPM
FLT
VEL NOZ
ANN VEL: DC
239

0100	
10.6	
42	
15-18	
14-21	
10.5	

11.0	

9.0	Per. 6
1/2	DS-3
5000	

BITS:
NO.
SIZE
MAKE
TYPE
JETS
BIT WT
RPM
PMP PRESS
PMP STKS
GPM
HOURS RUN
FOOTAGE
DEPTH OUT
CONDITION
SER. NO.

4875		
5		
8 3/4		
SPC		
SP66		
11-12-B		
20/55		
70		
2000		
78		
268		
51 3/4		
525		

420868		

SURVEYS:
DEPTH DEY. DIR.

MATERIAL USAGE:

DAILY MUD COST 0-
TOTAL 12568

COSTS:
DAILY 6558
TOTAL 183219

BOTTOM HOLE ASSEMBLY:

B1-KS-SS 3-7" D1 TBS-2-7" DC
19-6 1/4 DC
BHA-766.06 WT. 61,000

GAS:
BG
TRP
CONH
START
END
CODE

REMARKS

0500 0830 02 Dg-5143-5201
0830 0900 07 Rig Sec - X Bof's
0900 2000 02 Dg-5201-5353
2400 0500 02 Dg-5353-5400

MOBIL DAILY DRILLING REPORT

27-23 WELL Sentinel Peak RIG Energy Search #1 DAYS FROM SPUD 11 DATE 7-13-85

DEPTH 5163 PROGRESS 234 DRILL TIME 23 1/2 REPORT NO. 11

CASING 9 5/8 X 1620 SHOE TEST 16# FMW BOP 7-5-85

STATUS Drilling FORMATION Hemlock
ln, sd, sh

MUD:
TIME 0120
WT. 10.5
FUEL VIS 41
PV/YP 14-17
GELS o/so 15-22
API WL 12.5
HT WL —
PH 11.0
OIL % —
SOLIDS % 9.1 AK-6.0
SAND % 1/2 DS 3.1
CL PPM 5500
FLT 109
VEL NOZ 435 IF 652
ANN VEL: DC 126 DP 117
239

BITS:
NO. 4875
SIZE 5
MAKE 83/4
TYPE SOC
JETS 386F
BIT WT 11-12-B
RPM 50/55
PMP PRESS 70
PMP STKS 2000
GPM 78
HOURS RUN 268
FOOTAGE 28 1/4
DEPTH OUT 288
CONDITION —
SER. NO. 420868

SURVEYS:
DEPTH DEV. DIR.

MATERIAL USAGE:
100- BAR
3- DRIS PAC
3- Castile

GAS:
BG 5
TRP —
COIN 5
START END CODE

BOTTOM HOLE ASSEMBLY:
21-15-55 3-7" DC 7AS 3-7" DC
19-6 1/2" DC
BHA - 766.06 wt 61,000

DAILY MUD COST 1172
TOTAL 12568
COSTS:
DAILY 7897
TOTAL 176661

START	END	CODE	REMARKS
0500	0830	02	Dlg - 4929 - 4957
0830	0900	07	Fig Ser - X Pops
0900	2400	02	Dlg - 4957 - 5109
2400	0500	02	Dlg - 5109 - 5163

MOBILE DAILY DRILLING REPORT

27-28
WELL Sandwell Jackrig Energy Creek #1 DAYS FROM SPUD 10 DATE 7-12-85
DEPTH 4929 PROGRESS 196 DRILL TIME 12 1/2 REPORT NO. 10
CASING 9 5/8 X 1620 SHOE TEST 16" EMU BOP 7-5-85
STATUS Drlg. FORMATION Hermosa -
Ln, ss, sh.

MUD:
TIME 0400
WT. 10.5
FUN'L VIS 42
PV/YP 13-19
GELS 50/10 11-19
API WL 11.0
HT WL —
PH 11.0
OIL % —
SOLIDS % 9.3 BAR 6.2
SAND % 1/2 DS 3.1
CL PPM 7800
FLT 103
VEL NOZ 425 I.F. 621
ANN VEL: DC 126 DP 117
239

BITS:
NO. 4 5
SIZE 8 3/4 8 3/4
MAKE Sec Sec
TYPE S84F S86F
JETS 11-11-B 11-12-B
BIT WT 30/55 30/55
RPM 70 70
PMP PRESS 2000 2000
PMP STKS 78 78
GPM 268 268
HOURS RUN 75 5 1/4
FOOTAGE 1030 59
DEPTH OUT 4875 INC
CONDITION B-4-D INC
SER. NO. 423695 42368

SURVEYS:
DEPTH 4875 DEV. 1/4 DIR. —

MATERIAL USAGE:
DRP 92
DRP —
DRISAC 3
Acoustic 2

DAILY MUD COST: 1098
TOTAL 11396

COSTS:
DAILY 13673
TOTAL 168814

GAS:
BG 2 BOTTOM HOLE ASSEMBLY:
TRP B 19-15-25 - 3-7" DC 165 - 3-7" DC
CONN — 19-15-25 - 3-7" DC 165 - 3-7" DC
START END CODE REMARKS

START	END	CODE	REMARKS
0500	0800	02	Dlg. 4733 - 4773
0800	0815	07	Rig Ser - X Bops
0815	1730	02	Dlg - 4773 - 4875
1730	1745	10	Survey - 1/4 4875 - DPL
1745	1800	05	Jump Slug for Trip
1800	2000	06	TOCH for Bit - STAY DP - NO CORR.
2000	2030	07	Rig Ser - X Bops - Blinds
2030	2100	06	TIN w/DC
2100	2200	09	cut 65' Dlg. line
2200	2315	06	TIN
2315	2345	03	WASH + circ 30' to TD
2345	2400	02	Dlg. 4875 - 4877
2400	0500	02	Dlg. 4877 - 4929

PHONE 801/259-2026 SUPERVISOR J. Arlie Browning

PHONE 801-259-2026 SUPERVISOR T. Arkie Brown

MOBILE DAILY DRILLING REPORT

27-23 MOBIL DAILY DRILLING REPORT

WELL Seitchak Ret Energy Search #1 DAYS FROM SPUD 7 DATE 7-9-85

DEPTH 4100 PROGRESS 271 DRILL TIME 17 3/4 REPORT NO. 7

CASING 9 5/8 1620 SHOE TEST 16" - 16.111 BOP 7-5-85

STATUS Drilling FORMATION Green Rock

MUD:	0400	
TIME	10.5	
WT.	44	
FUN'L VS	14/26	
PV/YP	9/17	
GELS @ 10	10.4	
API WL	—	
HT WL	11.5	
PH	—	
OK %	4.2	
SOLIDS %	12	
SAND %	11500	
CL PPM	103	
FLT		
VEL NOZ	464	LF 676
ANN VEL: DC	171	DP 114
	233	

BITS:		
NO.	3	4
SIZE	8 3/4	8 3/4
MAKE	REC	SEC.
TYPE	HP 51	SR 4 F
JETS	10-11-B	11-11-B
BIT WT	50	50
RPM	70	70
PMP PRESS	2000	2000
PMP STKS	76	76
GPM	262	262
HOURS RUN	523 1/4	163 1/4
FOOTAGE	1959	255
DEPTH OUT	3845	INC
CONDITION	74-84%	INC
SER. NO.	B14448	423695

SURVEY:	DEPTH	DEV.	DIR.
3845	10		

MATERIAL USAGE
320 - BAC
8 - DEERAGE
6 - CAUSTIC
3 - SODA ASH
4 - DEECO

DAILY MUD COST 3664
TOTAL 8033

COSTS:
DAILY 15572
TOTAL 140052

GAS: _____
 BG: _____
 TRP: _____
 CONN: _____
 START: _____ END: _____ CODE: _____

BOTTOM HOLE ASSEMBLY:
 BT-B.S.-S.S.-3-7" D.C. - I.B.S.
 3-7" A.C. - 18-6" 1/4 D.C.
 BHA - 766.06 WT. 66,000*

REMARKS: _____

[illegible]

PHONE 801-259-2026 SUPERVISOR Gagneaux - J. A. Browning

27-23

MOBIL DAILY DRILLING REPORT

WELL Satish Park RIG Energy Search #1 DAYS FROM SPUD 6 DATE 7-8-85
 DEPTH 3829 PROGRESS 665' DRILL TIME 22 1/4 REPORT NO. 13
 CASING 9 5/8" @ 1620 SHOE TEST 16" - E.M.W. BOP 7-5-85
 STATUS Drilling FORMATION Begin Rock 54-54

MUD:
 TIME 0430 W
 WT. 10.2 10.4
 FUN'L VIS 41
 PV/YP 13/16
 GELS @ 10 6/14
 API WL 9.9
 HT WL —
 PH 11.0
 OIL % —
 SOLIDS % 8.0
 SAND % 1/2
 CL PPM 11500
 FLT 102
 VEL NOZ 495 IF 685
 ANN VEL: DC 171 DP 114
233

BITS:
 NO. 3
 SIZE 8 3/4"
 MAKE Reed
 TYPE HP51
 JETS 10-11-B
 BIT WT 50
 RPM 70
 PMP PRESS 2000
 PMP STKS 76
 GPM 262
 HOURS RUN 55 3/4
 FOOTAGE 1943
 DEPTH OUT INC.
 CONDITION INC.
 SER. NO. 814448
(348)

SURVEYS:

DEPTH	DEY.	DIR.
3448	1/2°	

MATERIAL USAGE:
3 - DRIPAC
6 - CRUSTIC
4 - lime

DAILY MUD COST 620
 TOTAL 4391

COSTS:
 DAILY 6690
 TOTAL 124,480

BOTTOM HOLE ASSEMBLY:
R.T - R.B. - R.S. - S.S. - 2-7" D.C. - I.B.S.
3-7" D.C. - 16-6 1/4 D.C.
R.H.R. 681.47 - WT. 54,000

START	END	CODE	REMARKS
0500	0800	02	Delg 3164 - 3255
0800	0830	07	Service Rig
0830	1345	02	Delg. 3255 - 3458
1345	1400	10	Run W.L. Survey @ 3448 - 1/2°
1400	2000	02	Delg - 3458 - 3642
2000	2330	02	Delg - 3642 - 3736
2330	2400	07	Service Rig - Check For wite Flow - 1/2" mud wt. 9.7 + vis.
			36 - (CL PPM 11,000) (Calcium 800) (PH. 8.0)
2400	0130	02	Delg. 3736 - 3767 - Raising mud wt. to Kill Flow
			10.1"
0130	0200	21	check Flow - st. it had Flow w/ 10.2" mud. - Close Hydr.
			For 15 min. no press Build up - Open Hydrill - still Flow
0200	0500	02	Delg 3767 - 3829 Raising mud wt. to 10.4"
			and conn. @ 0500 - wite Flow Dead

PHONE 801-257-2026 SUPERVISOR Gagnier, X

MODEL DAILY DRILLING REPORT

WELL 27-23 Central Peak RIG Energy Service #1 DAYS FROM SPUD 5 DATE 7-7-85
 DEPTH 3164 PROGRESS 874 DRILL TIME 22 1/4 REPORT NO. 5
 CASING 9 5/8" - C 1620 SHOE TEST 16" - E.M.U. BOP 7-5-85
 STATUS Drilling (39.2) FORMATION Ogallala Rocks
sh - sh.

MUD:
 TIME
 WT.
 FUEL VLS
 PV/YP
 GELS-10
 API WL
 HT WL
 pH
 OIL %
 SOLIDS %
 SAND %
 CL FPM
 FLT
 VEL NOZ
 ANN VEL: DC
 233

0430	
9.8	
3.7	
1014	
415	
9.9	
—	
11.5	
—	
6.5	6.5
76	0.5.34
450	
103	

BITS:
 NO.
 SIZE
 MAKE
 TYPE
 JETS
 BIT WT
 RPM
 PMP PRESS
 PMP STKS
 GPM
 HOURS RUN
 FOOTAGE
 DEPTH OUT
 CONDITION
 SER. NO.

3		
8 3/4		
Reed		
HP51		
10-11-R		
50		
70		
2000		
76		
262		
33 1/2		
1278		
100		
INC.		
BH48		

SURVEYS:

DEPTH	DEV.	DRL
2500	3/4°	
2930	3/4°	

MATERIAL USAGE:

2 - Drisacs.
 2 - Cautex
 1 - X.C. Polymer

DAILY MUD COST

TOTAL 636
3771

COSTS:

DAILY 24589
 TOTAL 117,767 (Grand)

BOTTOM HOLE ASSEMBLY:

8 3/4" BIT - B.B. - B.S. - S.S. - 3-7" A.C.
 7-8-3-7" A.C. - 16-6 1/4" A.C.
 B.H. - 681.47 WT. 54,000#

START	END	CODE	REMARKS
0500	0800	02	Drly - 2290 - 2413
0800	0830	07	Service Rig - Change out wear sub.
0830	1115	02	Drly. 2413 - 2538
1115	1145	10	Ran W.L. survey @ 2500' - 3/4°
1145	2015	02	Drly. 2538 - 2844
2015	2030	07	Service Rig & Pump
2030	2145	02	Drly - 2844 - 2937
2145	2215	10	Ran W.L. survey @ 2930 - 3/4°
2215	2400	02	Drly 2937 - 3022
2400	0500	02	Drly 3022 - 3164

MOBIL DAILY DRILLING REPORT

WELL Sentinel Peak 2723 RIG Energy Search #1 DAYS FROM SPUD 4 DATE 7-6-85
DEPTH 2290 PROGRESS 670 DRILL TIME 18 (322) REPORT NO. 4
CASING 9 5/8 O 1620 SHOE TEST Eq To 16" BOP 7-6-85
STATUS Drilling FORMATION chiale

MUD:
TIME
WT.
FUN'S VIS
PV/VP
GELS 5/10
API WL
HT WL
DH
OIL %
SOLIDS %
SAND %
CL PPM
FLT

0330	
9.6	
38	
10/10	
6/11	
9.3	
-	
11	
-	
5.5	
14	
450	
100	

BITS:
NO.
SIZE
MAKE
TYPE
JETS
BIT WT
RPM
PMP PRESS
PMP STKS
GPM
HOURS RUN
FOOTAGE
DEPTH OUT
CONDITION
SER. NO.

2	3
8 3/4	8 3/4
Sec	Beed
M44N	HPA1
3-9	10-11-B
25/65	50
60/100	70
1700	2000
80	80
276	276
6 3/4	11 1/2
268	404
1886	
1-F-3	
239065	B14448

SURVEYS:

DEPTH	DEV.	DIR.
2007	1"	

MATERIAL USAGE:

190	B90
55	601
9	219446
6	2043718
5	Sade Oct

GAS:
BG
TRP
CONN

BOTTOM HOLE ASSEMBLY:
BIT - 5.0 - 0.5 - 55 - 3 7' DC
LBS - 3 7' DC - 16 1/4 DC =
187.47

DAILY MUD COST 3135
TOTAL 3135
COSTS:
DAILY 19935
TOTAL 50,064

START	END	CODE	REMARKS
0500	0515	14	Finish N/U BOP's
0515	0545	15	Test Bldg Range To 2000" 30 min
0545	0730	6	1/2 P/L BLM & T.H.
0730	0800	21	1/2 Test Pipe To 2000"
0800	0815	15	1/4 Dtg. Floot + Cement
0913	0930	2	1/4 Dtg. 1620 - 1640
0930	0945	2	1/4 Test Shoe To 675" Eq To 16"
0945	1515	2	1/4 Dtg. 1640 - 1886
1515	1730	6	1/2 Temp For B.T. - Due To Slow Dtg. Rate
1730	2245	2	1/4 Dtg. 1886 - 2047
2245	2300	10	1/4 Survey
2300	0500	2	1/4 Dtg. 2047 - 2290

PHONE 801-259-2026 SUPERVISOR [Signature]

MOBIL DAILY DRILLING REPORT

Sentinal
 1 MOBIL DAILY DRILLING REPORT
 WELL Prod 27-23 RIG Energy Search DAYS FROM SPUD 5 DATE 7-3-85
 DEPTH 1620 PROGRESS 0 DRILL TIME 0 REPORT NO. 2
 CASINO 976 @ 1620' SHOE TEST _____ BOP _____
 STATUS N/A BOP's FORMATION Chalk

MUD:
TIME
WT.
FUN'L VIB
PV/TP
GELS 0/10
API WL
HT WL
PH
OIL %
SOLIDS %
SAND %
CL PPM
FLT
VEL NOZ
ANNYEL:

BITS:
 NO.
 SIZE
 MAKE
 TYPE
 JETS
 BIT WT
 RPM
 PMP PRESS
 PMP STKS
 GPM
 HOURS RUN
 FOOTAGE
 DEPTH OUT
 CONDITION
 SER. NO.

SURVEYS:

DEPTH	DEV.	DIA.
-------	------	------

MATERIAL USAGE:

GAS: _____
 BG _____
 TRP _____
 CONN _____
 START END COD

BOTTOM HOLE ASSEMBLY:

B/7-D-55-6740c - 16.6% OC.
674,95

DAILY MUD COST: _____

TOTAL _____

COSTS:

DAILY 44.836

TOTAL 22.083

START	END	CODE	REMARKS	TOTAL
0500	0615	5	1/2" Casing Cement Hole for 9 7/8"	27,083
0615	0800	1	1 1/2" T.O.H. for 9 7/8" Casing	
0800	1000	21	W.C. Casing	
1000	1100	12	Prepwork casing for Hole	
1100	1300	12	Run 34 1/2" 9 7/8" 30" H-35 1 1/2" (N. Fill)	
1300	1350	5	1/2" Casing	
1350	1500	12	Cement Casing w/ 465 sk Lining w/ 2 1/2" H-7	
			+ 14" 1 1/2" D-70 Followed w/ 150 sk "B" w/	
			2 1/2" H-7 - Displaced w/ 126 Bbl H ₂ O Pump	
			Plug w/ 1000' over. 1100' Hole OK.	
1500	16		Had No Cement Returns.	
1500	1630	13	W.C. Unable to See Fluid in Top of Hole.	
1630	1700	12	Run 10' 1" + Cement Top of 9 7/8" w/ 65	
			sk. "B" w/ 2 1/2" H-7 Cement Original 8'	
1700	1830	13	W.C.	
1830	0500	14	Cut off - weld on Broken Head + N/A Bar.	

PHONE 507-252026

SUPERVISOR

Sentinel
WELL Pack 27-23 RIG Energy Service #1 DAYS FROM SPUD 2 DATE 7-4-83
DEPTH 1620 PROGRESS 1472 DRILL TIME 17 - 51.3 REPORT NO. 2
CASING 13 3/8 120 SHOE TEST _____ BOP _____
STATUS TOH To Run 5/8 FORMATION Chert

MUD:
 TIME
 WT.
 FUN'L VIS
 PV/YP
 GELS 0/10
 API WL
 HT WL
 pH
 OIL %
 SOLIDS %
 SAND %
 CL PPM
 FLT
 VEL NOZ
 ANN VEL: 1

BITS:
 NO.
 SIZE
 MAKE
 TYPE
 JETS
 BIT WT
 RPM
 PMP PRESS
 PMP STKS
 GPM
 HOURS RUN
 FOOTAGE
 DEPTH OUT
 CONDITION
 SER. NO.

14500		
1246		
57.0		
F2		
3-13		
911		
100		
1800		
24/24		
520		
1500		
1620		
FR984		

SURVEYS:

DEPTH	DEV.	DIA.
500	3/4	
850	1'	
1200	3/4	
1310	1'	

MATERIAL USAGE:

GAS: _____
 BG: _____
 TRP: _____
 CONN: _____

BOTTOM HOLE ASSEMBLY:

BIT-55- 1 7' DC - 10-105-10
4 7' D.C. - 16 1/4 D.C. = 675.41

DAILY MUD COST:

TOTAL _____

COSTS:

DAILY	5423
TOTAL	27247

START	END	CODE	REMARKS	TOTAL
0600	0800	1	2 Drlg. 270 478	
0800	0815	7	1/4 Hg. Surv.	
0815	0830	1	1/4 Drlg. 478 - 539	
0830	0900	10	1/4 Survey	
0900	1215	2	1/2 Drlg. 539 - 850	
1215	1230	10	1/4 Survey	
1230	1645	2	1/4 Drlg. 850 - 1200	
1645	1700	10	1/4 Survey	
1700	2015	2	1/2 Drlg. 1200 - 1515	
2015	2030	10	1/4 Survey	
2030	2330	2	1/2 Drlg. 1515 - 1670	
2330	0030	5	1 Core + Cond Hole	
0030	0100	10	1/4 Survey	
0100	0200	1	1 Short Trip 14 stands No Prog 20' Fill	
0200	0500	5	3 Core + Cond Hole For 95'	

PHONE 601-259-2016 SUPERVISOR R. J. [Signature]

Mobil Oil Corporation

P.O. BOX 5444
DENVER, COLORADO 80217-5444

April 18, 1986

RECEIVED
APR 23 1986

State of Utah
Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

DIVISION OF
OIL, GAS & MINING

Attn: Mr. Norm Stout


0.21 - GOVERNMENTAL REPORTING
COMPLETION REPORTS
SENTINEL PEAK #27-23
MCELMO CREEK #U-09
MCELMO CREEK #Q-23
MCELMO CREEK #R-10
SAN JUAN COUNTY, UTAH

Gentlemen:

In reference to the subject leases, attached are the completion reports recently requested.

If additional information is needed, please call Claude Corpian at (303) 298-2031.

Very truly yours,



J. E. Dawson
Producing Accounting Supervisor

CGCorpian/kms
ol1c-317d
Attachments

Mobil Oil Corporation

P.O. BOX 5444
DENVER, COLORADO 80217-5444

April 18, 1986

RECEIVED
APR 23 1986

State of Utah
Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

DIVISION OF
OIL, GAS & MINING

Attn: Mr. Norm Stout

0.21 - GOVERNMENTAL REPORTING
COMPLETION REPORTS
SENTINEL PEAK #27-23
MCELMO CREEK #U-09
MCELMO CREEK #O-23
~~MCELMO CREEK #R-10~~
SAN JUAN COUNTY, UTAH

Gentlemen:

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Very truly yours,



J. E. Dawson
Producing Accounting Supervisor

CGCorpian/kms
ol1c-317d
Attachments



FEB 28 1989

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2405

*orig R Faith
for file*
RECEIVED
MAR 02 1988

Ref: 8WM-DW

Mr. Greg B. Colton, Vice President
Pioneer Oil & Gas
6925 Union Park Center, Suite 145
Midvale, Utah 84047

DIVISION OF
OIL, GAS & MINING

RE: Completeness Letter,
UIC Permit No. UTS248731144,
Sentinel Peak #27-23 SWD Well
San Juan County, Utah

Dear Mr. Colton:

Your February 22, 1989, Express Mail letter and enclosed financial statements for Pioneer Oil and Gas have been received and reviewed. With reference to our January 31, 1989, letter, we advised that "... Upon our receipt of these two documents, your permit application will be declared complete."

With this letter, your UIC Permit Application cited above is now declared complete in accordance with 40 CFR 124.3, 144.31, and 146.24. You should be aware that I may ask for additional information as I work on your draft permit. If so, I will ask that you forward it directly to my attention.

Assuming that everything is satisfactory, you can expect your Draft Permit to be issued in about 30 days. A Public Notice will advise the general public of their opportunity the comment within thirty (30) days of the date of its publication. This is also your opportunity to comment on the proposed Draft Permit.

The Final Permit can then be issued if there are no public comments. If comments are received, they must be addressed and changes made, if appropriate. Additional time may be required if any of the commenters desire a hearing.

Please address any further questions you have to me at (303) 293-1416; thank you again for your cooperation.

Sincerely,

Gustav Stolz, Jr.
Gustav Stolz, Jr. (PE)
UIC Petroleum Engineer

cc: Navajo Indian Tribal Council

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> <i>Temporarily Abandoned</i>	5. LEASE DESIGNATION AND SERIAL NO. <i>NOO.C-14.5118</i> <i>Dulling</i>
2. NAME OF OPERATOR <i>Mobil Oil Corporation</i> <i>MEPDA</i>	6. IF INDIAN, ALLOTTEE OR TRIBE NAME <i>NAVATO</i> 040102
3. ADDRESS OF OPERATOR <i>P.O. Drawer G, Cortez, Co 81321</i>	7. UNIT AGREEMENT NAME <i>-</i>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <i>2069' FSL. 2123' FWL 4303731144</i>	8. FARM OR LEASE NAME <i>Sentinel Peak</i>
14. PERMIT NO. <i>43-037-31144</i>	9. WELL NO. <i>27-23</i>
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <i>GR: 4918'</i>	10. FIELD AND POOL, OR WILDCAT <i>Sentinel Peak</i>
	11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA <i>Sec 27, T41S, R26E SLM</i>
	12. COUNTY OR PARISH <i>San Juan</i>
	13. STATE <i>Utah</i>

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <i>Extension of TA Status</i>	<input checked="" type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Water production in the Sentinel Peak area has not yet increased to a level where additional disposal capacity is needed. Mobil Oil Corporation requests that the current temporarily abandoned status be extended until water production in the area increases to such a level that additional water disposal is necessary.

MAR 12 1987

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

DATE

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

Federal approval of this action
is required before commencing
operations.

*See Instructions on Reverse Side

DATE: *3-17-87*
BY: *John R. Boye*

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

1. Oil Well ☐ Gas Well ☐ Other: Temporarily Abandoned

2. Name of Operator
MOBIL OIL CORPORATION

3. Address of Operator
P. O. DRAWER 6, CORTEZ, CO. 81321

4. Location of Well
2069' FSL, 2123' FWL

14. Permit No. 15. Elevations (DF, RT, GR)
GR: 4918'

5. Lease Designation &
Serial No.
N00-C-14-5118

6. If Indian, Allottee or Tribe Name
NAVAJO

7. Unit Agreement Name
-

8. Farm or Lease Name
Sentinel Peak

9. Well No.
27-23

10. Field and Pool, or Wildcat
Sentinel Peak

11. Sec. T,R,M or BLK and
Survey or Area
Section 27, T41S, R26E SLM

12. County, Parish 13. State
San Juan Utah

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

Notice of Intention To:		Subsequent Report of:	
Test Water Shut-off <input type="checkbox"/>	Pull or Alter Casing <input type="checkbox"/>	Water Shut-off <input type="checkbox"/>	Repairing Well <input type="checkbox"/>
Fracture Treat <input type="checkbox"/>	Multiple Complete <input type="checkbox"/>	Fracture Treatment <input type="checkbox"/>	Altering Casing <input type="checkbox"/>
Shoot or Acidize <input type="checkbox"/>	Abandon <input type="checkbox"/>	Shooting/Acidizing <input type="checkbox"/>	Abandonment <input type="checkbox"/>
Repair Well <input type="checkbox"/>	Change Plans <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) Extension of TA Status	/XX/	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zone pertinent to this work) *

Water production in the Sentinel Peak area has not yet increased to a level where additional disposal capacity is needed. Mobil Oil Corporation requests that the current temporarily abandoned status be extended until water production in the area increases to such a level that additional water disposal capacity is necessary.

18. I hereby certify that the foregoing is true and correct

Signed: D. C. Collins Title: Sr Staff Operations Engr Date: April 18, 1988

(This space for Federal or State office use)

APPROVED BY _____ TITLE: _____ DATE: _____

CONDITIONS OF APPROVAL, IF ANY:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

040102

CONTROL NO: _____

ROUTING/ACTION FORM

SEQUENCE	NAME	INITIAL	ACTION
1	NORM	7 4-1-87	9
	RON		
2	JOHN	5 4-3-87	12 - Chg. status to TA per WFR. Completed as a TA well - no prod. info avail. Effective date 8-31-85.
	GIL		
	ARLENE		
01	TAMI	4 4-3-87	T.3A
	VICKY		
	CHARLES		
	PAM		
3	RULA	Rm 4/10	01 ✓
	CONNIE		
	MILLIE		
	DEBRA		
	ADA		
4	TAMI	4 4-14-87	✓

ACTION CODE

1. DATA ENTER
2. FILM
3. POST
a. CARD FILE
b. FILE LABEL
c. LISTS
4. FILE
5. RELOCATE FILE OR CARD
6. DECISION
7. PREPARE LETTER
8. SUSPENSE FILE REVIEW
9. FYI - NECESSARY ACTION
12. OTHER - SEE NOTES

COPIES

PI	
MJ	
HL	
UPDATE	1
RULA	★
ADA	
TAX	
VICKY	
INSPECTORS	
CHG OF OPER	
TOTAL	01

NOTES: 12

JOHN, SHOULD THIS BE AN EXTENSION OF TA, OR OPENSE ?

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN INDICATE

502

SUNDRY NOTICES AND REPORTS ON WELLS

1. Oil Well ☐ Gas Well ☐ Other ☐

2. Name Of Operator

Mobil Oil Corporation

3. Address Of Operator

P. O. Box 5444, Denver, CO 80217-5444

4. Location Of Well

618 FSL, 1078 FWL Sec. 27, T41S, R26E SLM

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JUL 1 1988

DIVISION OF
OIL, GAS & MINING

5. Lease Designation And Serial No

N00-C-14-20-3118

6. Indian, Allottee Tribe Name

NAVAJO

7. Unit Agreement Name

8. Farm Or Lease Name

Sentinel Peak

9. Well No.

27-14

10. Field And Pool, Or Wildcat

Sentinel Peak

11. Sec., T., R.,

Sec 27, T41S, R26E SLM

12. County

San Juan

13. State

Utah

14. Permit No.

43-037-20292

15. Elevation 4906 BR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

Notice Of Intention To :

Test Water Shut-off ☐ Pull Or Alter Casing ☐

Fracture Treat ☐ Multiple Complete ☐

Shoot Or Acidize ☐ Abandon ☐

Repair Well ☐ Change Plans ☐

(Other) ☐

Subsequent Report Of :

Water Shut-off ☐ Repairing Well ☐

Fracture Treatment ☐ Altering Casing ☐

Shooting Or Acidizing ☐ Abandonment ☐

(Other) SALE OF PROPERTY ☐

17. Describe Proposed Or Completed Operations

Effective May 1, 1988 this lease, including the reference well was sold to:

Pioneer Oil & Gas
6925 Union Park Center
Suite 145
Midvale, Utah 84047

560-3000

OIL AND GAS	
DRN	RJF
JRB	GLH
DTS	SLS
1-TAS	
2-MICROFILM	✓
3-FILE	

* 7-26-90
Oper. change from Mobil Oil Corp. (MEPNA)
to Pioneer Oil & Gas involved complete
lease "Sentinel Peak Tract."
Sentinel Peak #2723/43-037-31144
was included in this change.
for

18. I hereby certify that the foregoing is true and correct

Signed S. R. Myrland

Title Mgr., Regulatory Compliance Date June 28, 1988

Approved By _____

Title _____

Date _____

Conditions Of Approval If Any:



Norman H. Bangerter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

November 25, 1988

U. S. Environmental Protection Agency
999 18th Street, Suite 500
Denver, Colorado 80202 - 2405

Attn: Mike Strieby

Dear Mike:

Re: Disposal Well Application on Navajo Land, Pioneer Oil and Gas

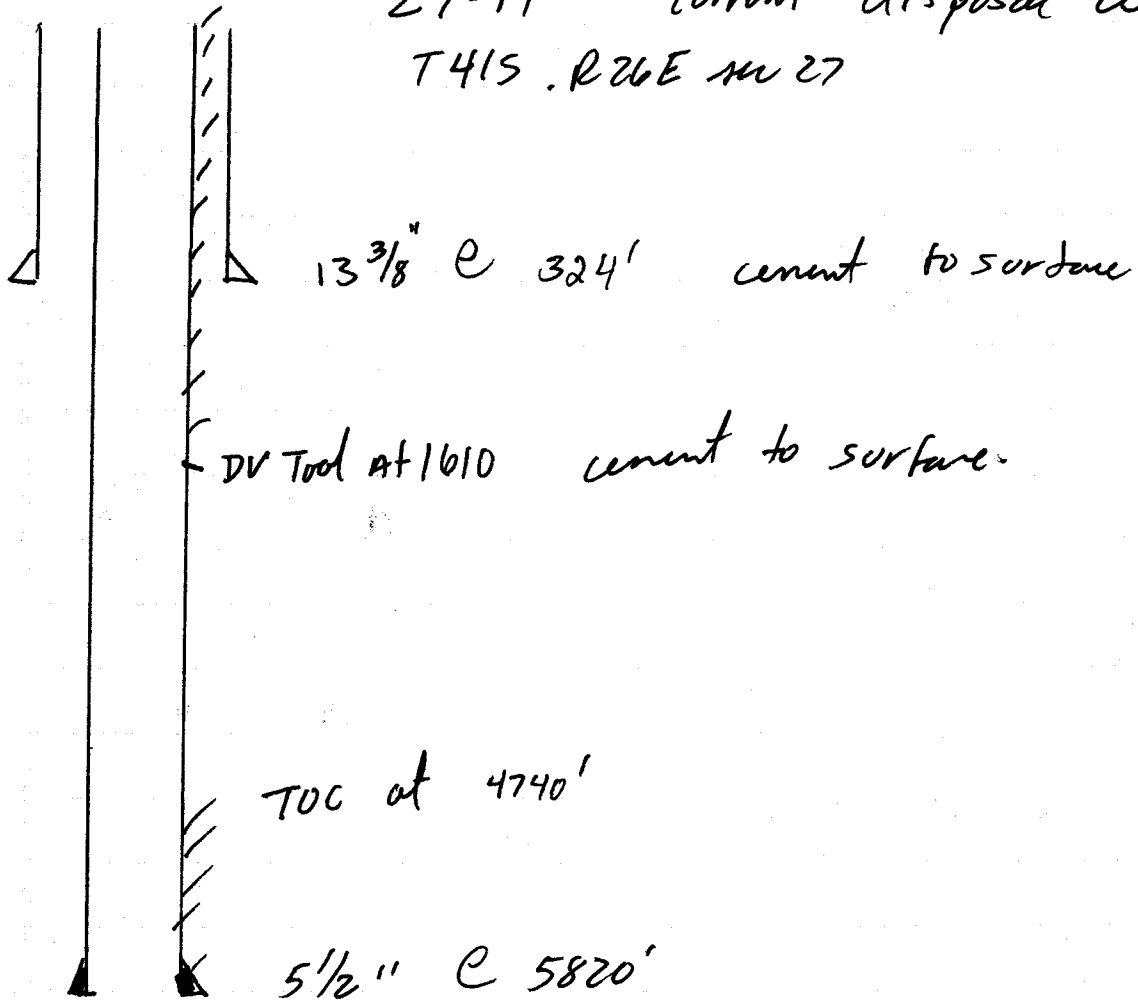
Enclosed is an application recently received by this office for a produced water disposal well located on Navajo Land, San Juan County, Utah. Since EPA is initiating a UIC Program for injection wells on the reservation which becomes effective November 25, 1988, I am forwarding this request to you for your consideration.

Please contact me if we can assist in your review or supply any information from our files.

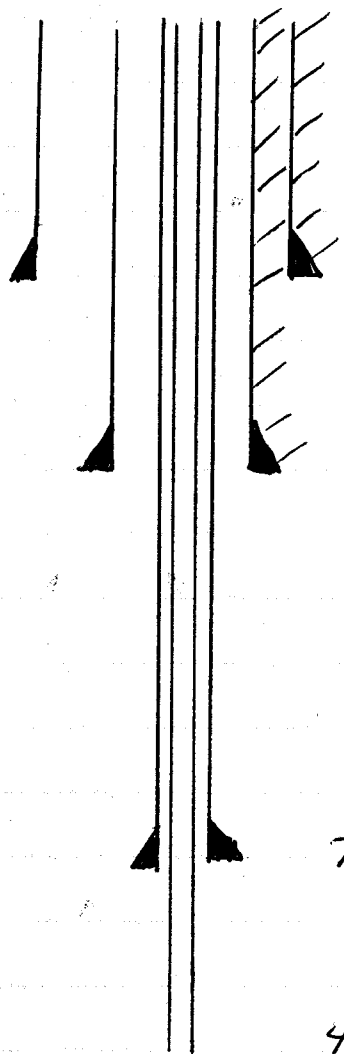
Sincerely,

Gil Hunt
Environmental/Geological Supervisor

27-14 current disposal well.
T415 R26E N27



27-32 T41S, R26E N427 Producing well



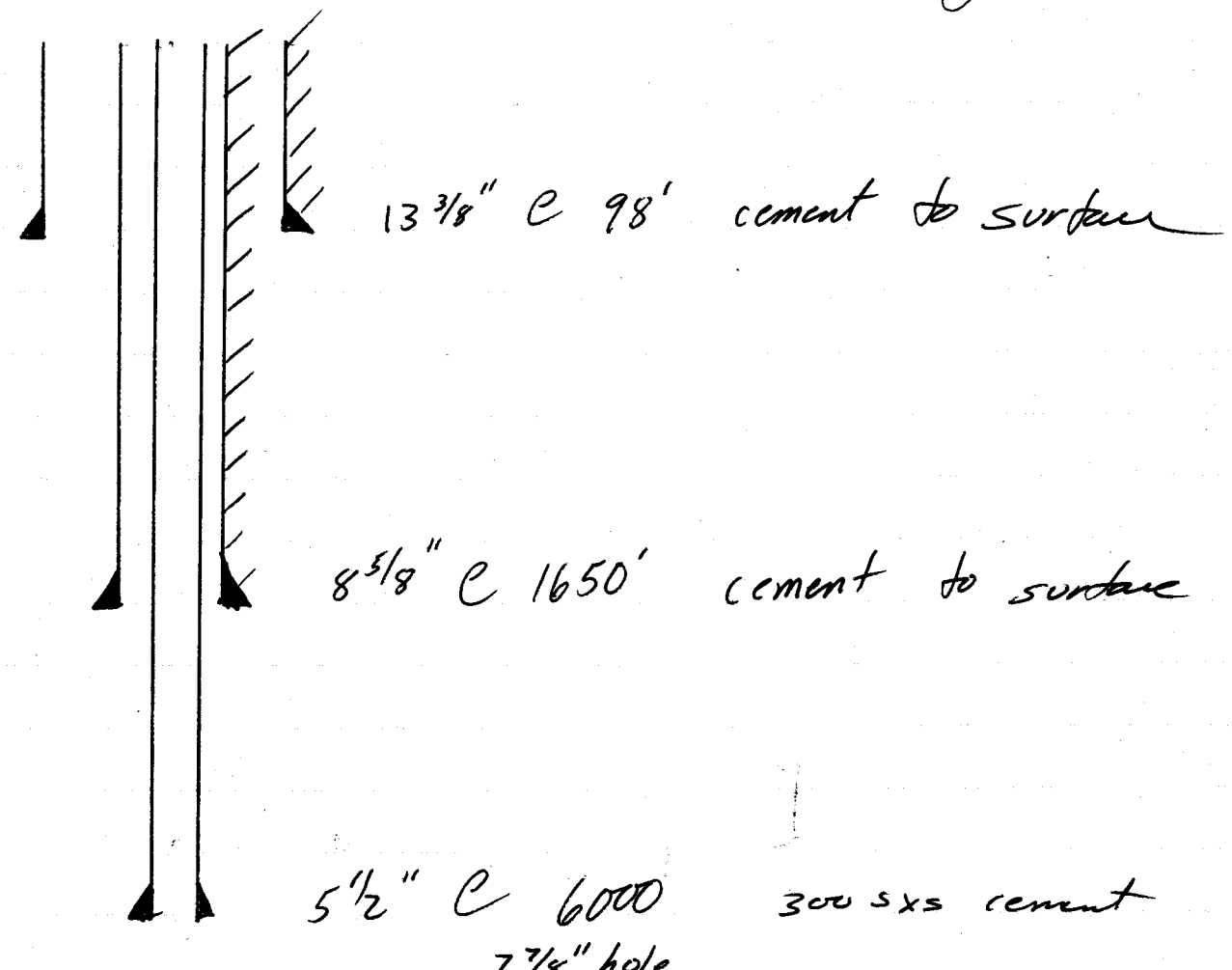
13 $\frac{3}{8}$ " C 100' cement to surface

9 $\frac{5}{8}$ " C 3090' cement to surface
Decidedly cemented off

7" C 7190' cemented with
8 $\frac{3}{4}$ " hole 500BX of cement.

4 $\frac{1}{2}$ " liner C 7460' 755X cement
6" hole.

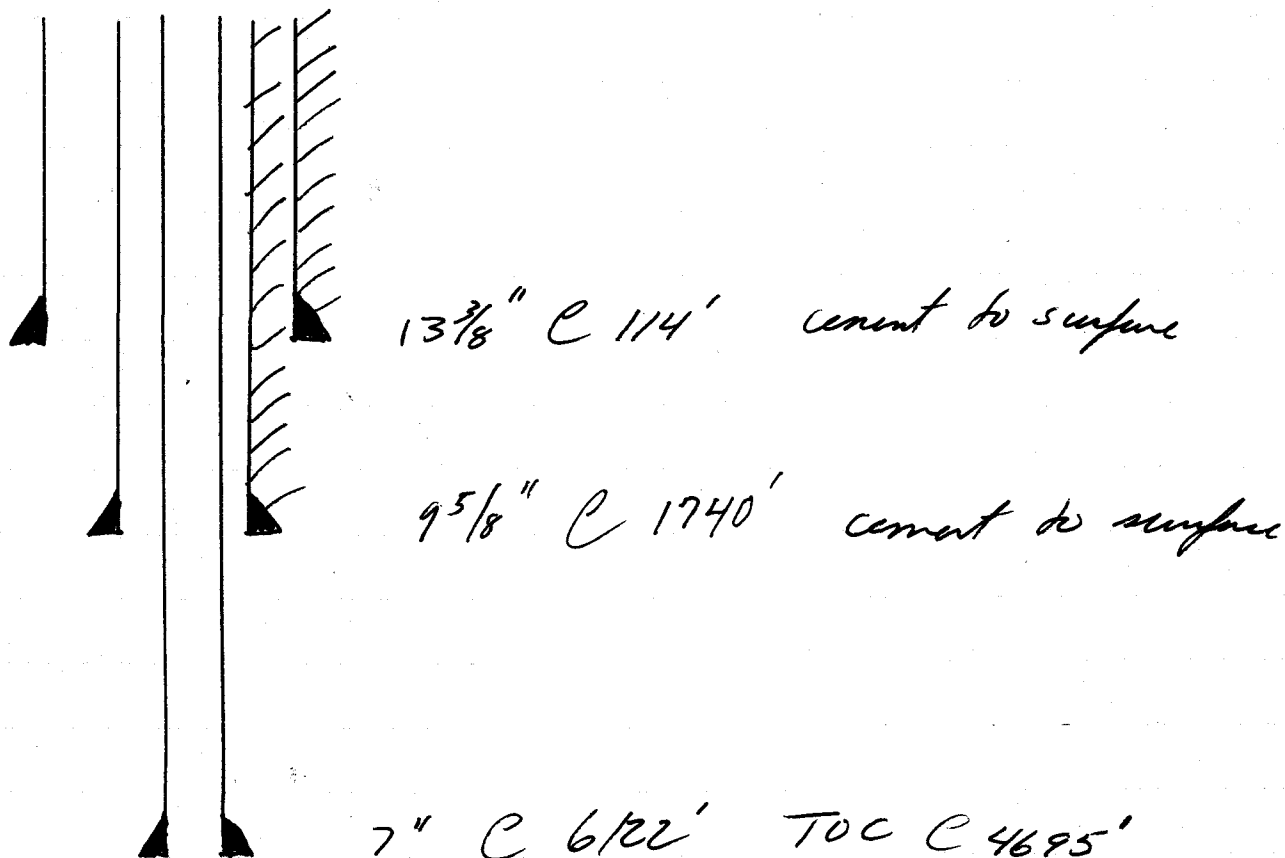
27-21 T415, R2BE sec 27 Producing well



Chinle 1872'
Dechelly 2948'
Organ Rock 3043'

3043

27-33 T 41S, R 22E sec 27
Producing well.



Chinli 1734'
Dechelly 3080
Orgem rock 3164'

Operator

Pioneer Oil

Well

Sentinal Peak 27-23²⁷⁻¹⁴ revised.

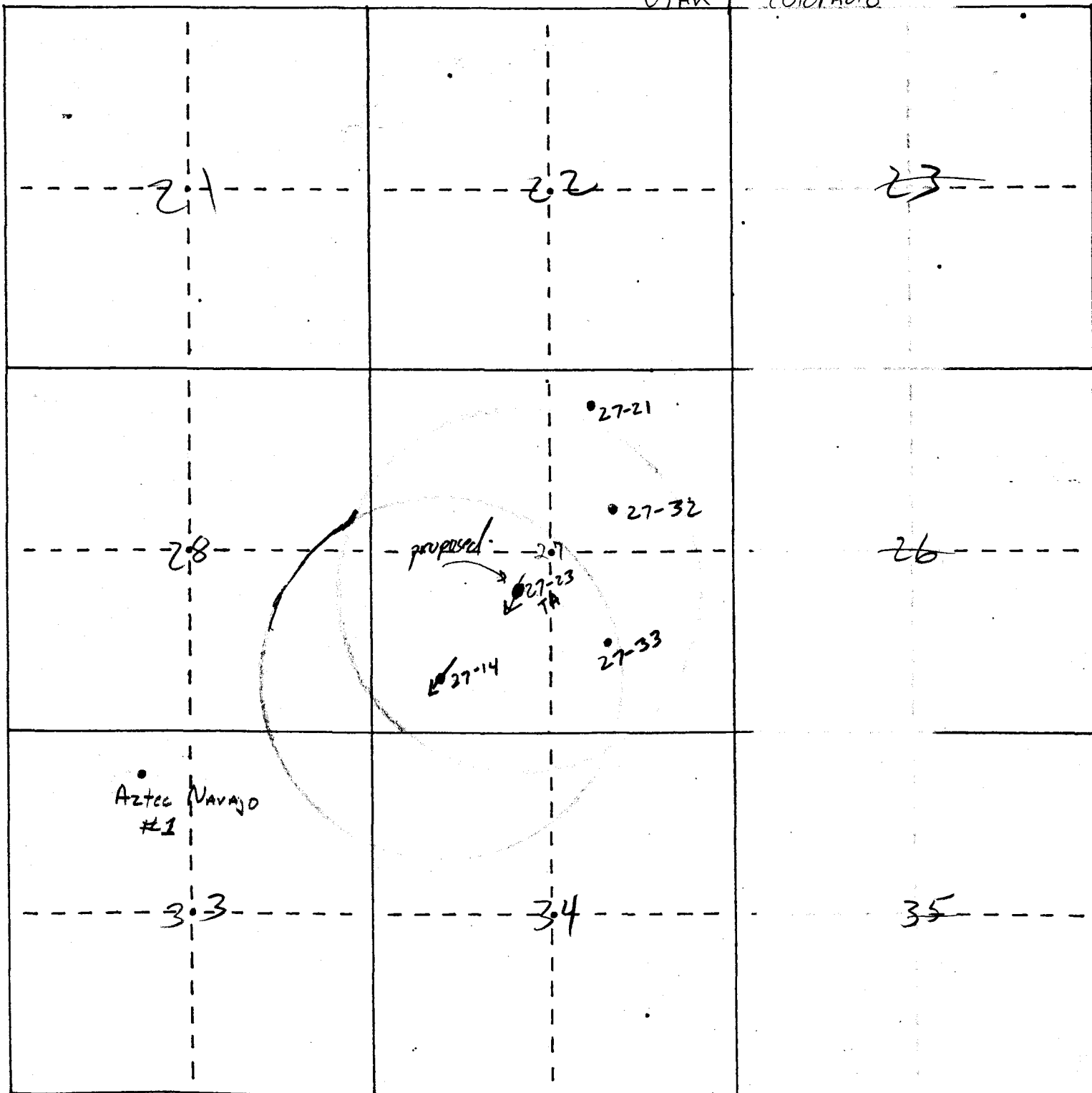
Location

Sec 27, 41S, 26E

San Juan County

UTAH

colorado



27-23

31144

27-33

31029



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2405

orig file
cc 6/1/89
DEN

JAN 20 1989

Ref: 8WM-DW

Mr. Jason G. Blake
Field Operations Manager
Pioneer Oil & Gas
6925 Union Park Center, Suite 145
Midvale, Utah 84047

RECEIVED
JAN 28 1989

DIVISION OF
OIL, GAS & MINING

RE: Application Deficiencies,
UIC Permit No. UTS248731144,
Sentinel Peak #27-23 SWD Well
San Juan County, Utah

Dear Mr. Blake:

Please reference our January 19, 1989, telephone conversation in which we discussed the need for you to address several additional underground injection control (UIC) program requirements prior to the issuance of the above-cited injection well draft permit for which Pioneer has applied. These additional requirements include:

- 1) Item 5.(iii) - The maximum injection pressure (Pm) must be calculated using the relationship $P_m = (0.2)(d)$; $P_m = (0.2)(2850') = 570$ psig at the surface (see 40 CFR Part 147.3006, copy enclosed). In the well permit, a step rate test will be required for the purpose of defining the injection formation fracture pressure, after which you may request an increase in the maximum injection pressure with the test results as your justification.
- 2) Item 8. - Verification of public notice, consisting of a list showing names, addresses, and date that notice of permit application was given or sent to each:
 - (i) surface land owner,
 - (ii) tenant,
 - (iii) operator of a producing lease within one-half mile of the well location, and
 - (iv) affected Tribal Government.

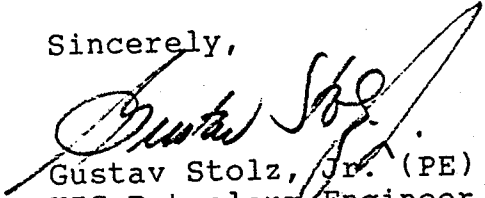
Your notice/letter should indicate that they will receive a letter from EPA advising of their opportunity to comment on your proposal.

Mr. Jason G. Blake
Page Two

- 3) Item 10. - Proof of adequate financial responsibility. EPA requires a financial instrument (surety bond, letter of credit, trust, CD, etc.) with EPA as the beneficiary, together with an executed standby trust agreement, in an amount to cover the estimated P&A cost (as shown on your Plugging and Abandonment Plan). I have enclosed some guidance information and sample "instrument" verbiage for your use and files; please call if you have any questions.

Thank you for your cooperation in providing these additional permit application needs.

Sincerely,



Gustav Stolz, Jr. (PE)
UIC Petroleum Engineer

enclosures

cc: Navajo Indian Tribal Council
Utah Oil, Gas & Mining

Attached are casing schematics of wells in area of review. The 27-21, ^{27-14 and} ~~and~~ 27-33 wells do not have cement through the De chelly (proposed injection zone)

All fresh water zones are cased and cemented.

It is recommended that if approval is given

That the casing annulus be monitored on these wells

UIC CHECKLIST FOR APPLICATION APPROVAL

OPERATOR Pioneer Oil & Gas WELL NUMBER Sentinal Peak 27-23
 SEC. 27 T. 41S R. 26E COUNTY SAN JUAN
 API # 43-037-31144

NEW WELL _____ DISPOSAL WELL ☒ ENHANCED RECOVERY WELL _____

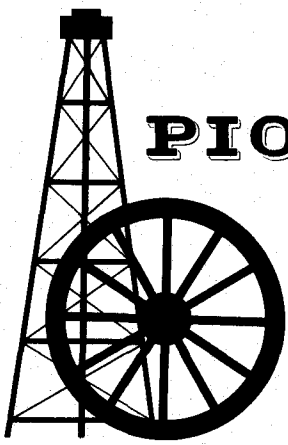
- Plat showing surface ownership	Yes <input checked="" type="checkbox"/>	No <u>exhibit</u>
- Application forms complete	Yes <input checked="" type="checkbox"/>	No <u>exhibit</u>
- Schematic of well bore	Yes <input checked="" type="checkbox"/>	No <u>exhibit</u>
- Adequate geologic information	Yes <input checked="" type="checkbox"/>	No _____
- Rate and Pressure information	Yes <input checked="" type="checkbox"/>	No _____
- Fluid source	Yes <input checked="" type="checkbox"/>	No _____
- Analysis of formation fluid	Yes <u>see</u>	No _____
- Analysis of injection fluid	Yes <u>below.</u>	No _____
- USDW information	Yes <input checked="" type="checkbox"/>	No _____
- Mechanical integrity test	Yes <input checked="" type="checkbox"/>	No _____

Comments: analyses of the injection fluid, injection zone
formation fluid, & compatibility will be run after
completion. A casing integrity test will also be
run at completion

MAX pressure 927 psi } injectivity test will be
MAX rate 3500 BWPD } run.

Reviewed by R. Jensen 11-27-88

4 wells in area of review
 3 producers 1 disposal
 which will be SI for
 (over) evaluation.



PIONEER OIL & GAS

RECEIVED
JUL 19 1989

DIVISION OF
OIL, GAS & MINING

July 18, 1989

Ron Firth, Assistant Director
Utah Division of Oil, Gas & Mining
3 Triad Center
Suite 350
SLC, UT 84180-1203

Re: Sentinel Peak #27-23 Well Conversion

Dear Mr. Firth:

Please find enclosed the required copies of the Sundry Notice and Completion Report concerning the well conversions of the Sentinel Peak #27-23. This well was converted from a TA status to a water disposal well in the De Chelly as set forth in the EPA permit #UT5248731144.

If you should have any questions, please feel free to call.

Sincerely,

Jason G. Blake
Field Operations Manager

JGB/tbp

Enc.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use APPLICATION FOR PERMIT for such proposals.)

OIL WELL ☐ GAS WELL ☒ OTHER Water Disposal Well

2. NAME OF OPERATOR

Pioneer Oil & Gas (mobile)

3. ADDRESS OF OPERATOR

6925 Union Park Center, Suite 145, Midvale, UT 84047

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface

2069' FSL & 2123' FWL (NE SW)

DIVISION OF
OIL, GAS & MINING

14. PERMIT NO.

43-037-31144

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4917 Gr.

5. LEASE DESIGNATION AND SERIAL NO.

NOO-C-14-5118

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Sentinel Peak

9. WELL NO.

#27-23

10. FIELD AND POOL, OR WILDCAT

Sentinel Peak

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec. 27-T41S-R26E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

13. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other) Disposal well conversion

(Other)

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

6-29-89: Rig up Flint Well Service. TIH with 7" casing scraper to 3125'. TOH with scraper. Run wireline guage ring - OK, run wireline CIBP and set at 3050'. Pressure test casing and bridge plug to 1100# for 10 min.-no pressure drop. Bail 2 sacks class "A" cement (25') on top of plug.

6-30-89: Perforate the DeChelly Sandstone from 2948-78', 2928-44', 2900-22' and 2838-2862' with 4 shots per foot. Swab well and check for fluid entry. Well flowed water with a shut in tubing pressure of 80 PSI. Rig up Dowell for acid job. Acidize perfs with 4000 gal. 15% MSR-100 and Divert with 2000 gal. WF-40 J-66 at 2#/gal. Initial pressure was 1470 PSI, Max. press.- 1640 PSI, Rate was kept constant at 3 bbl./min. Initial shut in pressure was 1350 PSI. Swab back load.

7-1-89: Finish swabbing back load. Rig down BOP, Nipple up wellhead. Waiting on final EPA permission to commence injection.

18. I hereby certify that the foregoing is true and correct

SIGNED

Jason G. Blake

TITLE Field Operations Manager

DATE 7-17-89

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		3. LEASE DESIGNATION AND SERIAL NO. N00-C-14-20-5118	
2. NAME OF OPERATOR Pioneer Oil and Gas		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo	
3. ADDRESS OF OPERATOR 6925 Union Park Center, Suite 145, Midvale, UT 84047		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface See Below		8. NAME OF LEASE NAME Sentinel Peak	
14. PERMIT NO.		9. WELL NO.	
15. ELEVATIONS (Show whether DF, RT, OR, etc.)		10. FIELD AND POOL, OR WILDCAT Sentinel Peak	
		11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA Sec. 27: T41S-R26E	
		12. COUNTY OR PARISH San Juan	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETION <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>
(Other) <u>Change of Operator</u> <input checked="" type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Well Name	Legal Description	Well Type	Status	API Number
No. 27-14	SWSW 27-41S-26E	INJ	P	43-037-20292
No. 27-21	NWSE 27-41S-26E	P	OP	43-037-30747
No. 27-23	NESW 27-41S-26E	INJ	SI	43-037-31144
No. 27-32	SWNE 27-41S-26E	P	OP	43-037-30537
No. 27-33	NWSE 27-41S-26E	P	OP	43-037-31029

MEFNA - 47370

Pioneer Oil and Gas has assigned all its ownership in the subject lease effective August 1, 1990. Pioneer Oil and Gas shall no longer be the operator of the subject properties.

Giant Exploration and Production Company shall therefore be the operator effective August 1, 1990.

Former Operator:
Pioneer Oil and Gas

New Operator:
Giant Exploration & Production Company
PO Box 2810
Farmington, NM 87499

Signed: Gregg B. Colton
Gregg B. Colton, Vice President
Date: July 31, 1990

Signed: Aldrich L. Kuchera
Title: Aldrich L. Kuchera, President and CEO
Date: August 13, 1990

18. I hereby certify that the foregoing is true and correct

SIGNED <u>R. Hedgcock</u> R. Hedgcock Wilson (This space for Federal or State office use)	TITLE <u>Land Manager</u>	DATE <u>July 31, 1990</u>
APPROVED BY _____ CONDITIONS OF APPROVAL, IF ANY:	TITLE _____	DATE _____

*See Instructions on Reverse Side

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Changes made 9-26-90

Routing:

1-	LCR	✓
2-	DTSDTS	✓
3-	VLC	✓
4-	RJF	✓
5-	RWM	✓
7-	LCR	✓

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

☒ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 8-1-90)

TO (new operator)	<u>GIANT EXPLOR. & PROD. CO.</u>	FROM (former operator)	<u>PIONEER OIL AND GAS</u>
(address)	<u>P. O. BOX 2810</u>	(address)	<u>6925 UNION PARK CTR. #145</u>
	<u>FARMINGTON, NM 87499</u>		<u>MIDVALE, UT 84047</u>
	<u>phone (505) 326-3325</u>		<u>phone (801) 566-3000</u>
	<u>account no. N 0075</u>		<u>account no. N 3025</u>

Well(s) (attach additional page if needed):

Name: <u>SENTINEL PEAK 22-34 (JSMY)</u>	API: <u>4303730748</u>	Entity: <u>00546</u>	Sec. <u>22</u> Twp. <u>41S</u> Rng. <u>26E</u>	Lease Type: <u>INDIAN</u>
Name: <u>MCCELMO CR Q-29 (DSCR)</u>	API: <u>4303715524</u>	Entity: <u>05995</u>	Sec. <u>29</u> Twp. <u>41S</u> Rng. <u>25E</u>	Lease Type: <u>INDIAN</u>
Name: <u>NAVAJO TR 125 #1 (DSCR)</u>	API: <u>4303715541</u>	Entity: <u>05990</u>	Sec. <u>21</u> Twp. <u>41S</u> Rng. <u>25E</u>	Lease Type: <u>INDIAN</u>
Name: <u>NAVAJO TRE 125 #2 (DSCR)</u>	API: <u>4303715542</u>	Entity: <u>05990</u>	Sec. <u>28</u> Twp. <u>41S</u> Rng. <u>25E</u>	Lease Type: <u>INDIAN</u>
Name: <u>NAVAJO TR 125 #4 (DSCR)</u>	API: <u>4303715543</u>	Entity: <u>05990</u>	Sec. <u>28</u> Twp. <u>41S</u> Rng. <u>25E</u>	Lease Type: <u>INDIAN</u>
Name: <u>SENTINEL PEAK #27-14 (JSMY)</u>	API: <u>4303720292</u>	Entity: <u>99991</u>	Sec. <u>27</u> Twp. <u>41S</u> Rng. <u>26E</u>	Lease Type: <u>INDIAN</u>
Name: <u>SENTINEL PEAK 27-21 (JSMY)</u>	API: <u>4303730747</u>	Entity: <u>06020</u>	Sec. <u>27</u> Twp. <u>41S</u> Rng. <u>26E</u>	Lease Type: <u>INDIAN</u>

CONTINUED-----

OPERATOR CHANGE DOCUMENTATION

- 1 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form).
- 2 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) ____ If yes, show company file number: ____.
- 1 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- 1 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above.
- 1 6. Cardex file has been updated for each well listed above.
- 1 7. Well file labels have been updated for each well listed above.
- 1 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission.
- 1 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) NO (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
2. A copy of this form has been placed in the new and former operators' bond files.
3. The former operator has requested a release of liability from their bond (yes/no) _____. Today's date _____ 19____. If yes, division response was made by letter dated _____ 19____.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated _____ 19____, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
2. Copies of documents have been sent to State Lands for changes involving State leases.

INDEXING

1. All attachments to this form have been microfilmed. Date: October 9 1990.

FILED

1. Copies of all attachments to this form have been filed in each well file.
2. The original of this form and the original attachments have been filed in the Operator Change file.

REMARKS

8-20-90 Earl Beecher / Btm Farmington Nm - No documentation as of yet.

8-29-90 Earl Beecher - Informed me that these wells are under the jurisdiction of EPA.

(2 wells - 43-037-30511 (W1W) and 43-037-31144 (W1W) are still listed under MEPNA)

00926 Per DTS & MEPNA telephone verification (see phone doc.) ok to change (2) wells listed above!

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

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6-

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

☒ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 8-1-90)

TO (new operator)	<u>GIANT EXPLOR. & PROD. CO.</u>	FROM (former operator)	<u>PIONEER OIL AND GAS</u>
(address)	<u></u>	(address)	<u></u>
	<u></u>		<u></u>
	<u></u>		<u></u>
	phone (<u> </u>)		phone (<u> </u>)
	account no. <u>N 0075</u>		account no. <u>N3025</u>

Well(s) (attach additional page if needed):

CONTINUED-----

Name: <u>SENTINEL PEAK 27-32 (ISMY)</u>	API: <u>4303730537</u>	Entity: <u>06025</u>	Sec <u>27</u> Twp <u>41S</u> Rng <u>26E</u>	Lease Type: <u>INDIAN</u>
Name: <u>SENTINEL PEAK 27-33 (ISMY)</u>	API: <u>4303731029</u>	Entity: <u>06025</u>	Sec <u>27</u> Twp <u>41S</u> Rng <u>26E</u>	Lease Type: <u>INDIAN</u>
Name: <u>GOTHIC MESA 6-23 (DSCP)</u>	API: <u>4303715039</u>	Entity: <u>06008</u>	Sec <u>6</u> Twp <u>41S</u> Rng <u>23E</u>	Lease Type: <u>INDIAN</u>
Name: <u>GOTHIC MESA 6-34 (DSCP)</u>	API: <u>4303715034</u>	Entity: <u>06008</u>	Sec <u>6</u> Twp <u>41S</u> Rng <u>23E</u>	Lease Type: <u>INDIAN</u>
Name: <u>GOTHIC MESA 7-21 (DSCP)</u>	API: <u>4303715036</u>	Entity: <u>06008</u>	Sec <u>7</u> Twp <u>41S</u> Rng <u>23E</u>	Lease Type: <u>INDIAN</u>
Name: <u>GOTHIC MESA 7-41 (DSCP)</u>	API: <u>4303715032</u>	Entity: <u>06008</u>	Sec <u>7</u> Twp <u>41S</u> Rng <u>23E</u>	Lease Type: <u>INDIAN</u>
Name: <u>GOTHIC MESA 8-12 (DSCP)</u>	API: <u>4303715035</u>	Entity: <u>06008</u>	Sec <u>8</u> Twp <u>41S</u> Rng <u>23E</u>	Lease Type: <u>INDIAN</u>

CONTINUED-----

OPERATOR CHANGE DOCUMENTATION

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- ☐ 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) If yes, show company file number: .
- ☐ 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- ☐ 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above.
- ☐ 6. Cardex file has been updated for each well listed above.
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Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

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- ☒ Change of Operator (well sold)
- ☐ Designation of Agent
- ☐ Designation of Operator
- ☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 8-1-90)

TO (new operator)	<u>GIANT EXPLOR. & PROD. CO.</u>	FROM (former operator)	<u>PIONEER OIL AND GAS</u>
(address)		(address)	
phone ()		phone ()	
account no. <u>N 0075</u>		account no. <u>N 3025</u>	

Well(s) (attach additional page if needed):

CONTINUED-----																
Name:	<u>GOTHIC MESA 8-33</u>	<u>(DSCP)</u>	API:	<u>4303715037</u>	Entity:	<u>06008</u>	Sec	<u>8</u>	Twp	<u>41S</u>	Rng	<u>23E</u>	Lease	Type:	<u>INDIAN</u>	
Name:	<u>GOTHIC MESA 8-42</u>	<u>(DSCP)</u>	API:	<u>4303715033</u>	Entity:	<u>06008</u>	Sec	<u>8</u>	Twp	<u>41S</u>	Rng	<u>23E</u>	Lease	Type:	<u>INDIAN</u>	
Name:	<u>GOTHIC MESA 9-13</u>	<u>(DSCP)</u>	API:	<u>4303715041</u>	Entity:	<u>06008</u>	Sec	<u>9</u>	Twp	<u>41S</u>	Rng	<u>23E</u>	Lease	Type:	<u>INDIAN</u>	
Name:	<u>NAVAJO 67-4</u>	<u>(9-24)</u>	<u>(DSCP)</u>	API:	<u>4303716452</u>	Entity:	<u>99990</u>	Sec	<u>9</u>	Twp	<u>41S</u>	Rng	<u>23E</u>	Lease	Type:	<u>INDIAN</u>
Name:	<u>GOTHIC MESA 16-11</u>	<u>(DSCP)</u>	API:	<u>4303715042</u>	Entity:	<u>06008</u>	Sec	<u>16</u>	Twp	<u>41S</u>	Rng	<u>23E</u>	Lease	Type:	<u>INDIAN</u>	
Name:	<u>GOTHIC MESA UNIT 16-13A</u>		API:	<u>4303731454</u>	Entity:	<u>06008</u>	Sec	<u>16</u>	Twp	<u>41S</u>	Rng	<u>23E</u>	Lease	Type:	<u>INDIAN</u>	
Name:	<u>GOTHIC MESA 16-22</u>	<u>(DSCP)</u>	API:	<u>4303715043</u>	Entity:	<u>06008</u>	Sec	<u>16</u>	Twp	<u>41S</u>	Rng	<u>23E</u>	Lease	Type:	<u>INDIAN</u>	
CONTINUED-----																

OPERATOR CHANGE DOCUMENTATION

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Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

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TO (new operator)	<u>GIANT EXPLOR. & PROD. CO.</u>	FROM (former operator)	<u>PIONEER OIL AND GAS</u>
(address)	_____	(address)	_____
	_____		_____
	_____		_____
phone ()	_____	phone ()	_____
account no. <u>N 0075</u>		account no. <u>N3025</u>	

Well(s) (attach additional page if needed):
 CONTINUED-----

Name: <u>GOTHIC MESA 16-33 (DSCF)</u>	API: <u>4303715044</u>	Entity: <u>06008</u>	Sec <u>16</u> Twp <u>41S</u> Rng <u>23E</u>	Lease Type: <u>INDIAN</u>
Name: <u>GOTHIC MESA 16-44 (DSCF)</u>	API: <u>4303716453</u>	Entity: <u>06008</u>	Sec <u>16</u> Twp <u>41S</u> Rng <u>23E</u>	Lease Type: <u>INDIAN</u>
Name: <u>GOTHIC MESA 17-31 (DSCF)</u>	API: <u>4303715040</u>	Entity: <u>06008</u>	Sec <u>17</u> Twp <u>41S</u> Rng <u>23E</u>	Lease Type: <u>INDIAN</u>
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: <u>**SENTINEL PK #27-23</u>	API: <u>4303731144</u>	Entity: <u>99990</u>	Sec <u>27</u> Twp <u>41S</u> Rng <u>26E</u>	Lease Type: <u>INDIAN</u>
Name: <u>**MCELMO CR 28-23</u>	API: <u>4303730511</u>	Entity: <u>05980</u>	Sec <u>28</u> Twp <u>41S</u> Rng <u>25E</u>	Lease Type: <u>INDIAN</u>
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other In-
structions on
reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ Other Disposal Well

b. TYPE OF COMPLETION:

NEW WELL ☐ WORK OVER ☒ DEEP-EN ☐ PLUG BACK ☐ DIFF. REMVR. ☐ Other _____

2. NAME OF OPERATOR

Pioneer Oil & Gas

3. ADDRESS OF OPERATOR

6925 Union Park Center, Suite 145, Midvale, UT 84047

4. LOCATION OF WELL (Report location clearly and in accordance with BLM State Requirements)

At surface 2069' FSL & 2123' FWL (NE SW)

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

as above

43-0373114

EPA#UTS24873114

UTAH

MINING

15. DATE SPUDDED

7/2/85

16. DATE T.D. REACHED

7/17/85

17. DATE COMPL. (Ready to prod.)

7/1/89

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

4817 GR, 1930 KB

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

5957

21. PLUG, BACK T.D., MD & TVD

3050

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

XX

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Disposal Interval - De Chelly Sandstone 2838-2978'

25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN

27. WAS WELL CORED

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	36# K-55	1620	12 1/4	613 "B" lite	
7"	23# K-55	5957	8 3/4	600 "B"	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

2948-2978

2928-2944

2900-2922

2838-2862

4 shots/foot

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
2838-2978	4000 gal 15% MSR-100 with
	2000 gal WF-40 J-66 (salt)
	at 2#/gal

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					WELL STATUS (Producing or shut-in)	
							Disposal Well	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	
			→					
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
		→						

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Jason G. Blake
Jason G. Blake

TITLE

Field Operations Manager

DATE

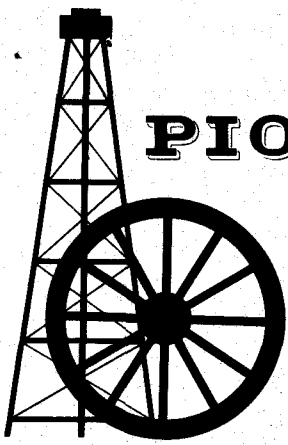
7/18/89

*(See Instructions and Spaces for Additional Data on Reverse Side)

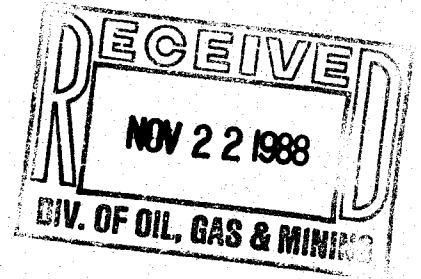
37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP																
					MEAS. DEPTH	TRUE VERT. DEPTH															
Chinle	1618		<div><table><tr><td colspan="2">OIL AND GAS</td></tr><tr><td>DRN</td><td>RJF</td></tr><tr><td>JRB</td><td>1- GLH</td></tr><tr><td>DTS</td><td>SLS</td></tr><tr><td></td><td></td></tr><tr><td>2-TAS</td><td></td></tr><tr><td colspan="2">MICROFILM</td></tr><tr><td colspan="2">FILE</td></tr></table></div>	OIL AND GAS		DRN	RJF	JRB	1- GLH	DTS	SLS			2-TAS		MICROFILM		FILE			
OIL AND GAS																					
DRN	RJF																				
JRB	1- GLH																				
DTS	SLS																				
2-TAS																					
MICROFILM																					
FILE																					
De Chelly	2848																				
Organ Rock	2993																				
Hermosa	4742																				
Upper Ismay	5642																				
Desert Creek	5838																				

38.



PIONEER OIL & GAS



November 22, 1988

Utah Division of Oil, Gas & Mining
Suite 350, 3 Triad Center
355 West North Temple
SLC, UT 84180-1203

Re: Application for Injection Well
Sentinel Peak Area
San Juan County, Utah

Gentlemen:

Enclosed, please find a completed form DOGM-U1C-1 Application For Injection Well for the Sentinel Peak #27-23 well located in Section 27, Township 41 South, Range 26 East, San Juan County, Utah. Also, please find listed below the additional requirements for the application as listed in the General Rules, Sections R615-5-2/2.1 through R615-5-2/2.13.

Section 2.1: Plat showing the location to the injection well plus surrounding wells, surface and mineral owners, etc. See Figure 1.

Section 2.2, 2.3, 2.4: Copies of the Dual Induction, Borehole Compensated Sonic and Cement Bond Log with Gamma Ray are all on file with the Division of Oil, Gas and Mining.

Section 2.5: The Sentinel Peak #27-23 well is currently temporarily abandoned with all existing perforations isolated under a CIBP and 50 feet of cement. The proposed injection zone has 7", 23#, K-55 casing set and cemented (Class "B" cement) from 200 feet below the injection interval to 400 feet above the interval. The casing will be tested to 1000 PSI for 15 minutes prior to perforating the injection interval.

Section 2.6: Injected fluid will consist of produced water from the Sentinel Peak wells #27-21, #27-32, #27-33 and #22-34. The most recent analysis run on the water is shown in Figure 2. Estimated injection volume is not expected to exceed 3500 barrels/day.

Section 2.7: Standard laboratory analysis of the injected fluid, injection zone formation fluid and compatibility will be completed immediately following the recompletion of the #27-23 well. Based on a computation using the resistivity logs of the #27-23 well and a modified Archie equation the salinity in the proposed injection zone (DeChelly Sandstone) ranges from 20,000 to 27,000 PPM.

Section 2.8: Proposed average injection pressure is estimated to be 250 to 500 PSI. The maximum injection pressure will be 927 PSI.

Section 2.9: The maximum injection pressure to be used to prevent fracturing of the formation was calculated by the formula: $(\text{depth} \times .75) - (\text{depth} \times .44) = \text{maximum pressure}$. This is an estimated figure based on average figures and may be subject to change following any step rate tests which may be performed.

Section 2.10: The proposed injection zone is the DeChelly Sandstone. The lithology is a clean, well sorted sandstone interbedded with argillaceous siltstones. The gross thickness of the horizon is 146 feet (2948' to 2994'). The net porosity thickness to be perforated will be 92 feet (2850'-74', 2910'-32', 2940'-56', 2960'-90'). The DeChelly Sandstone is a laterally extensive formation which blankets much of the four corners area of the Colorado Plateau. Upward migration of injected fluids is blocked by at least 1100 feet of shales and siltstones of the Chinle and Moenkopi formations. Downward migration of fluids would be blocked by siltstones and shales of the Organ Rock, Cedar Mesa and Honaker Trail Formations.

Section 2.11: A review of the mechanical condition of surrounding wells is shown in Figure 1. The present wellbore configuration and proposed wellbore configuration for the Sentinel Peak #27-23 well are shown in Figure 3 & 4 respectively.

Section 2.12: An affidavit certifying that the application has been sent to all mineral owners and surface owners within a 1/2 mile radius is attached.

Section 2.13: No other information has been requested by the Division at this time.

Thank you for your prompt attention to this application. Please don't hesitate to call me if any further information is required.

Sincerely,



Jason G. Blake
Field Operations Manager

JGB/tbp

Enc.

APPLICATION FOR INJECTION WELL

Operator: Pioneer Oil & Gas Telephone: (801)566-3000

Address: 6925 Union Park Center, Suite 145

City: Midvale State: Utah Zip: 84047

Well no.: #27-23 Field or Unit name: Sentinal Peak

Sec.: 27 Twp.: 41 S Rng.: 26 E County: San Juan Lease no. N00-C-14-20-5118

	<u>YES</u>	<u>NO</u>
Is this application for expansion of an existing project?.....	<u> </u>	<u>XX</u>
Will the proposed well be used for: Enhanced recovery?.....	<u> </u>	<u>XX</u>
Disposal?.....	<u>XX</u>	<u> </u>
Storage?.....	<u> </u>	<u>XX</u>
Is this application for a new well to be drilled?.....	<u> </u>	<u>XX</u>
Has a casing test been performed for an existing well?.....	<u>XX</u>	<u> </u>
(If yes, date of test: <u>8-6-85</u>)		

Injection interval: from 2850' to 2990' (DeChelly SS)

Maximum injection: rate est. 3500 B/D pressure 927# (max) psig

Injection zone contains NO oil, NO gas or NO fresh water within 1/2 mile.

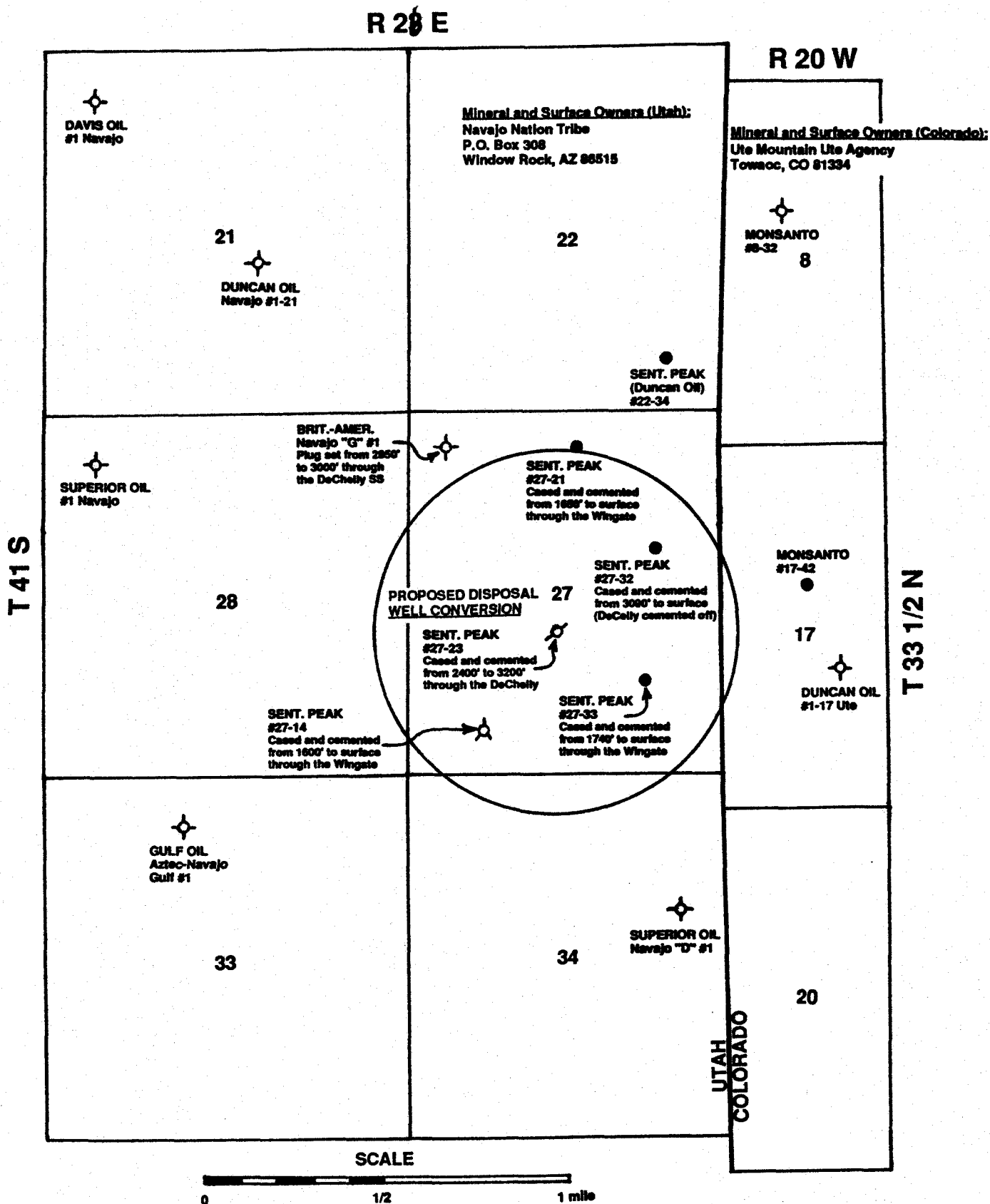
Additional information as required by Rule 502 should accompany this form.

I hereby certify that the foregoing is true and correct to the best of my knowledge:

Signed: Jason G. Blake Title: Field Operations Mgr. Date: 22 Nov. 1988

(This space for DOGM approval)

Approved by: _____ Title: _____ Date: _____



**PLAT SHOWING LOCATION OF PROPOSED
DISPOSAL WELL CONVERSION in the
SENTINAL PEAK AREA, San Juan Co., Utah**

PIONEER OIL & GAS
6925 Union Park Ctr, #145
Midvale, UT 84047

Figure 1

WATER ANALYSIS REPORT

SERVICE LABORATORY: 925 S. Broadway - Cortez, CO 81321



P.O. Box 909 - Cortez, CO 81321
Phone (303) 585-1056

CHEMICAL WITH SERVICE

Report for: Tym Kelley
cc for: G.M. Sinor
cc for: Dean Collins
cc for:
Company: Mobil Oil Corporation
Address: PO Drawer G - Cortez CO 81321
Service Engineer: Clyde Willis
Date Sampled: 3-25-87
Date Reported: 3-31-87
Location: Sentinel Peak Injection Well #27-14
County: San Juan
State: Utah
Submitted by: Joe Richards
Other Info: -

Chemical Component	mg per liter
Chloride (Cl) =	93000.
Iron (Fe) =	6.
Total Hardness (CaCO ₃) =	30700.
Calcium (Ca) =	8520.
Magnesium (Mg) =	2280.
Bicarbonate (HCO ₃) =	76.
Carbonate (CO ₃) =	0.
Sulfate (SO ₄) =	737.
Hydrogen Sulfide (H ₂ S) =	0.
Barium (Ba) =	0.
Sodium (Na) (calc.) =	46602.
Specific Gravity =	1.092
Density (lb/gal) =	9.10
pH (by meter) =	6.2
Dissolved CO ₂ (mg/l) =	180.

OTHER DESCRIPTION, REMARKS AND RECOMMENDATIONS

Scaling Index at 68 degrees F = -0.54
Scaling Index at 86 degrees F = -0.33
Scaling Index at 122 degrees F = +0.15
Scaling Index at 158 degrees F = +0.79

Reported by

J. W. Richards

Tech. Serv. Rep.

Figure 2

SENTINAL PEAK #27-23
2069' FSL, 2123' FWL, Sec. 27-T41S-R26E
San Juan County, Utah

PRESENT WELLBORE DIAGRAM
(11-22-88)

9 5/8", 36# surface casing set to 1620' with 615 sacks Class B cement (cement circulated to surface).

Datum elevation: 4930.5'
Surface elevation: 4917.5'

D.V. Tool at 3206'± -- cemented with 175 sacks Class B cement (fillup behind pipe to 2430')

7", 23#, K-55 production casing set at 5957' with 425 sacks Class B cement. (fillup behind pipe to 4170')

CIBP at 5640' with 50' of cement on top.

CIBP at 5725' with 10' of cement on top.

Upper Ismay Perforations
5679-85', 5688-90', 5692-95',
5698-5702' 2 shots/foot

Lower Ismay Perforations
5742-47' 4 shots/foot
5764-70' 2 shots/foot

PBTD 5910'±

5957' TD

Figure 3

SENTINAL PEAK #27-23
2069' FSL, 2123' FWL, Sec. 27-T41S-R26E
San Juan County, Utah

PROPOSED WELLBORE DIAGRAM

(DeChelly SS Disposal Well)

9 5/8", 36# surface casing set to 1620' with 615 sacks Class B cement (cement circulated to surface).

Datum elevation: 4930.5'
 Surface elevation: 4917.5'

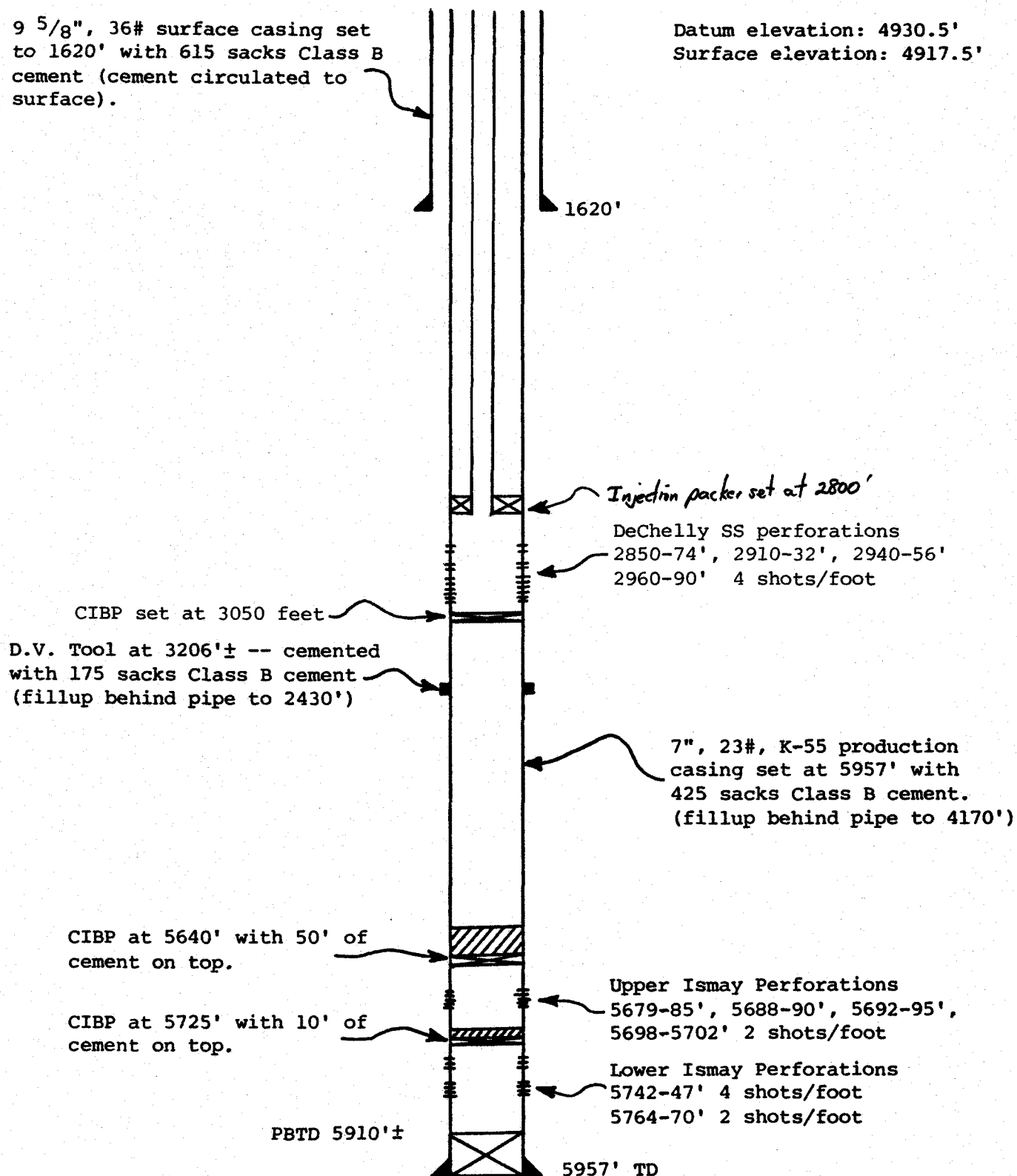


Figure 4

AFFIDAVIT

This affidavit is submitted to certify that the below listed parties have been provided with a copy of the form DOGM-U1C-1, Application for Injection Well plus all attachments as required in the Oil and Gas Conservation General Rules, Section R615-5-2/2-12.

Navajo Nation Tribe
Water Management Program
PO Box 308
Window Rock, AZ 86515
Attn: Raymond Russell

Ute Mountain Ute Agency
Towaoc, CO 81334
Attn: Dorrance Steele, Superintendent

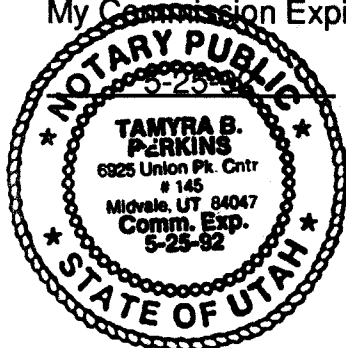
Colorado Oil & Gas Conservation Commission
1580 Logan Street
Suite 380
Denver, CO 80203
Attn: William R. Smith, Director


Signed:  Title: Field Operations Mgr. Date: 11-22-88
Jason G. Blake

STATE OF UTAH)
) ss.
COUNTY OF SALT LAKE)

Before me this 22nd day of November, 1988, personally appeared Jason G. Blake, who being by me first duly sworn, did say that he is the Field Operations Manager of Pioneer Oil & Gas, and as such is duly authorized to act on behalf of said corporation and did acknowledge that he did sign the foregoing agreement, intending thereby to bind said corporation.

My Commission Expires:




NOTARY PUBLIC
Residing at:

JUL 12 1991

MONTHLY INJECTION REPORT

For the month of May, 19 91

DIVISION OF
OIL GAS & MINING

Operator: Giant Exploration & Production Company Telephone: (505) 326-3325

Address: P.O. Box 2810

City: Farmington State: New Mexico Zip: 87499

Well no.: Sentinel Peak #27-23 Field or Unit name: Sentinel Peak

Sec.: 27 Twp.: 41S Rng.: 26E County: San Juan Lease no.: N 00-C-14-20-5118

Date.	Volume Disposed	Hours In Service	Maximum Pressure	Average Oper. Press.	Tbg/Csg Annulus Press.
1.	0	0	0	0	0
2.	0	0	0	0	0
3.	0	0	0	0	0
4.	0	0	0	0	0
5.	0	0	0	0	0
6.	0	0	0	0	0
7.	0	0	0	0	0
8.	742	24	750	700	0
9.	386	24	800	750	0
10.	1063	24	1300	1150	0
11.	164	12	1200	1100	0
12.	280	12	1200	1100	0
13.	369	12	1250	1150	0
14.	221	12	1200	1100	0
15.	590	24	1250	1200	0
16.	670	24	1300	1250	0
17.	729	24	1250	1150	0
18.	719	24	1300	1200	0
19.	870	24	1200	1100	0
20.	670	24	1250	1200	0
21.	740	24	1100	1050	0
22.	696	24	1150	1100	0
23.	731	24	1100	1000	0
24.	819	24	1150	1050	0
25.	667	24	1200	1150	0
26.	918	24	1250	1200	0
27.	808	24	1100	1000	0
28.	675	24	1150	1050	0
29.	940	24	1100	1050	0
30.	479	24	1250	1200	0
31.	39	10	1100	1050	0

Total volume injected for month: 14,985
All time cumulative volume injected: 14,985

I hereby certify that the foregoing is true and correct to the best of my knowledge:

Signed: Earlene J. Bickford Title: Administrative Manager Date: JUL 11 1991
Earlene J. Bickford

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

MAR - 1995

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

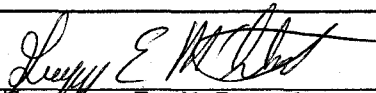
1. Type of Well: OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER: Injection Well	5. Lease Designation and Serial Number: NOO-C-14-20-5118
2. Name of Operator: Giant Exploration & Production Company	6. If Indian, Allottee or Tribe Name: Navajo
3. Address and Telephone Number: P.O. Box 2810, Farmington, New Mexico 87499 (505)326-3325	7. Unit Agreement Name:
4. Location of Well Footages: 2069' FSL, 2123' FWL QQ, Sec., T., R., M.: Sec. 27, T41S, R26E	8. Well Name and Number: Sentinel Peak Well #27-23 9. API Well Number: 43-037-31144 10. Field and Pool, or Wildcat: Sentinel Peak
County: San Juan State: Utah	

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other _____	<input checked="" type="checkbox"/> Abandonment * <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Other _____
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off
Approximate date work will start _____	Date of work completion <u>February 24, 1995</u> Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

See Attachment "A".

13.			
Name & Signature:		Title: Area Engineer	Date: MAR 06 1995
Gregory E. McIntosh			

(This space for State use only)

Giant Exploration & Production Company
Sentinel Peak Well No. 27-23

Attachment "A"

- 2/22/95 Pumped 75 sack (88.5 cuft) plug to cover DeChelly perforations and formation top plus excess. Squeeze pressure was 2100 psi. Tagged top at 2796'.
- 2/23/95 Perforated squeeze holes at 1670'. Could not pump under retainer. Perforated at 1640'. Set cement retainer at 1618'. Pumped 115 sack (135.7 cuft) plug, 74 sacks (87.3 cuft) below retainer and 41 sacks (48.4 cuft) on top of retainer to cover surface casing shoe and Chinle top from 1640' to 1420' plus excess. Perforated squeeze holes at 100'.
- 2/24/95 Pumped 48 sacks (56.5 cuft) in casing and through Bradenhead. Cut off wellhead. Installed dry hole marker with 40 sacks of cement.

Note: All cement was Class B cement mixed at 15.6 ppg, 1.18 cuft/sk yield. 8.33 ppg plugging mud was used between cement plugs.

Note: All changes from intent sundry were approved by Jim Walker.

Casing remaining in hole:

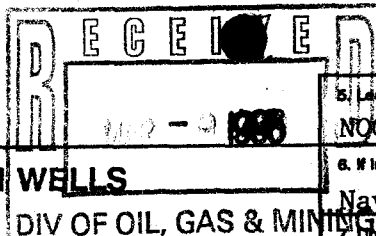
Surface casing: 9-5/8", 36#, K-55 to 1620'

Production casing: 7", 23#, K-55 to 5957'

BLM representative: Notified 2/22/95 - no representative on location.

Navajo EPA representative: Jim Walker and Charmaine V. Tso

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING



SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Serial Number:

NOO-C-14-20-5118

6. If Indian, Allottee or Tribe Name:

Navajo

7. Well Agreement Name:

1. Type of Well: OIL ☐ GAS ☐ OTHER: Water Injection

8. Well Name and Number:

Sentinel Peak #27-23

2. Name of Operator:

Giant Exploration & Production Company

9. API Well Number:

43-037-34029 31144

3. Address and Telephone Number:

P.O. Box 2810, Farmington, New Mexico 87499 (505)326-3325

10. Field and Pool, or Wildcat:

Sentinel Peak

4. Location of Well:

Footages: 800' FSL, 2123' FSL, 3416' FWL

OO, Sec., T., R., M.: Sec. 27, T41S, R26E

County: San Juan

State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT

(Submit in Duplicate)

- ☐ Abandonment ☐ New Construction
☐ Casing Repair ☐ Pull or Alter Casing
☐ Change of Plans ☐ Recompletion
☐ Conversion to Injection ☐ Shoot or Acidize
☐ Fracture Treat ☐ Vent or Flare
☐ Multiple Completion ☐ Water Shut-Off
☐ Other _____

Approximate date work will start _____

SUBSEQUENT REPORT

(Submit Original Form Only)

- ☐ Abandonment ☐ New Construction
☐ Casing Repair ☐ Pull or Alter Casing
☐ Change of Plans ☐ Shoot or Acidize
☐ Conversion to Injection ☐ Vent or Flare
☐ Fracture Treat ☐ Water Shut-Off
☒ Other Annual Status Report

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Annual Status Report:

The Sentinel Peak #27-23 was plugged and abandoned on 02/24/95.

02/24/95

13.

Name & Signature:

Gregory E. McIntosh

Title:

Area Engineer

Date:

MAR 07 1995

(This space for State use only)